Government of Saskatchewan

Annual Statistical Report 1989

Saskatchewan Health

Vital Statistics
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Regina, Saskatchewan
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Department of Health

To The Honourable Sylvia Fedoruk,
Lieutenant Governor of Saskatchewan.

May It Please Your Honour:

We beg to present herewith, for your consideration, the annual report on Saskatchewan vital statistics for the calendar year 1989.

Respectfully submitted,

Louise Simard,
Minister of Health.

Department of Health

To The Honourable Louise Simard,
Minister of Health.

Madam:

I have the honour to forward herewith the annual report on Saskatchewan vital statistics for the calendar year 1989.

Respectfully submitted,

Duane Adams
Deputy Minister of Health.

Foreword

The Saskatchewan Vital Statistics Annual Statistical Report 1989 has been prepared subsequent to the Interim Report on Saskatchewan Vital Statistics for the Calendar Year 1989, which was tabled in the Legislative Assembly on April 2, 1990. The Interim Report is based on place of occurrences in Saskatchewan regardless of place of residence. This Annual Statistical Report is based on occurrences to Saskatchewan residents regardless of where they took place.

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Terms and Definitions

A summary of symbols, definitions, and the method of computing rates used in this report are given below.

Symbols:

n.a. figures not available
— nil or zero

Definitions:

Population — unless otherwise indicated, resident population as enumerated in census years or estimated for intercensal years.
— 1972-1975, 1977-1980, 1982-1985, 1987-1989 — June 1 intercensal estimates.
— 1921-1971, 1976, 1981, 1986 — census or revised estimates.

Births — unless otherwise indicated, infants born alive, i.e. excluding stillbirths.

Stillbirths — unless otherwise indicated, foetal deaths of 20 or more weeks' gestation.

Deaths — unless otherwise indicated, exclude stillbirths.

Infant deaths — deaths under 1 year of age.

Neonatal mortality — deaths under 28 days (4 weeks) of age.

Maternal mortality — deaths due to delivery and complications of pregnancy, childbirth and the puerperium (Categories 630-676 International List).

Perinatal mortality — foetal deaths of 20 or more weeks' gestation plus infant deaths under 7 days (1 week) of age.

Natural increase — excess of births over deaths.

Crude rates — birth, marriage, death and natural increase rates per 1,000 population.

Age-specific fertility rates — birth rate per 1,000 women in the respective age period.

Total fertility rates — sum of female age-specific fertility rates, multiplied by 5.

General fertility rates — birth rate per 1,000 women 15-49 years.

Gross reproduction — average number of live daughters that would be born to a hypothetical female birth cohort if subjected to current age-specific fertility rates, and assuming that mortality before age 50 is zero.

Terms and Definitions (Continued)

Total births — live births and stillbirths.

Years of Life Lost — number of years between age at death and mean life expectancy for that age.

Age — complete ages in years, months, etc.

Average age — arithmetic mean.

Median age — age above and below which half of the total events occur.

Rates

(unless otherwise indicated, computed as follows)

Live births: per 1,000 population.

Stillbirths: per 1,000 live births.

Deaths: per 1,000 population.

Infant: per 1,000 live births.

Neonatal: per 1,000 live births.

Maternal: per 1,000 live births.

Perinatal: per 1,000 total births.

Causes of death
All causes: per 100,000 population.

Infant: per 1,000 live births.

Marriages: per 1,000 population.

Divorces: per 100,000 population.

Natural increase: per 1,000 population.

Notes:

1. Causes of death are coded according to the 9th 1975 Revision of the International Classification of Diseases, Injuries and Causes of Death, which was put into effect on January 1, 1979.
2. Rates and percentages may not add to 100.0 due to rounding.
3. Inquiries about this publication should be addressed to:

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Saskatchewan Health
1919 Rose Street
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Introduction

Population

At the turn of the century, the first heavy settlement took place in Saskatchewan. This was a period of record migration from overseas, supplemented by a massive east-west movement on the continent itself. This trend, however, reversed during the 1930's. Low fertility and low mortality prevailed and the migration of people began in the opposite direction. After World War II, the fertility rate reversed from low to moderate while the mortality rate remained low. During the 1950's and 1960's, losses in population continued but the higher rate of natural increase counterbalanced these losses. Between 1968 and 1974, the population declined until the 1974 population was less than that of 1961. The population has since shown a marked increase.

Year	Population (000's)[1]
1921	757
1931	922
1941	896
1951	832
1961	925
1971	926
1981	968
1989	1,007

[1] Source — Statistics Canada.

During the past 30 years, the proportion of older people (65 years and over) has been increasing both in Canada as a whole and in Saskatchewan.

Percentage Distribution of the Total Population

	Canada		Saskatchewan	
Age	1984	1989	1984	1989
0-19	29.9	28.2	32.7	31.7
20-44	40.7	41.1	36.9	37.3
45-64	19.2	19.4	18.1	17.6
65+	10.2	11.3	12.3	13.4

Percentage Distribution by Sex, Saskatchewan

Year	Male	Female	Males per 100 Females
1921	54.6	45.4	120
1931	54.2	45.8	119
1941	53.3	46.7	114
1951	52.2	47.8	109
1961	51.8	48.2	108
1971	50.8	49.2	103
1981	50.2	49.8	101
1989	51.6	48.4	107

Births

During the 1920's and 1930's the birth rate was characterized by a declining trend and reached a record low in the late 1930's. Gradually rising during the war years, the rate turned sharply upward, culminating in the peak of 1947. After a dip in the late 1940's, a steady rise occurred until a new peak was reached in 1954. The birth rate had been decreasing until it reached its new record low of 16.4 in 1973. The year 1974 indicated a slight increase with the birth rate at 16.8, and by 1982 the rate had risen to 18.1. Since then the birth rate had gradually been decreasing and by 1989 the rate had fallen to 16.5 per 1,000 population.

Live Birth Rates per 1,000 Population, Canada and Provinces, 1989[1]

	Rate
Canada	14.9
Newfoundland	12.3
Prince Edward Island	14.9
Nova Scotia	14.1
New Brunswick	13.5
Quebec	13.8
Ontario	15.2
Manitoba	15.9
Saskatchewan	16.5
Alberta	17.9
British Columbia	14.4

[1] Source — Statistics Canada.

Introduction (Continued)

Stillbirths are near an all-time low.

Stillbirth Rates per 1,000 Live Births, Canada and Provinces, 1989[1]

	Rates Weeks Gestation	
	20+	28+
Canada	6.4	4.1
Newfoundland	5.2	4.3
Prince Edward Island	4.1	2.6
Nova Scotia	8.6	6.1
New Brunswick	4.8	3.3
Quebec	5.0	3.5
Ontario	6.9	4.4
Manitoba	7.2	4.3
Saskatchewan	5.8	3.9
Alberta	5.9	3.9
British Columbia	7.4	3.7

[1] Source — Statistics Canada.

Deaths

The current crude death rate of 7.9 per 1,000 population in Saskatchewan is higher than the 1921 crude death rate (7.4). Since 1921, the average age of decedents has more than doubled. Saskatchewan's crude death rate is higher than that for Canada as a whole (7.9 and 7.3 respectively).

Death Rates per 1,000 Population, Canada and Provinces, 1989[1]

	Rate
Canada	7.3
Newfoundland	6.5
Prince Edward Island	8.4
Nova Scotia	8.5
New Brunswick	7.7
Quebec	7.2
Ontario	7.4
Manitoba	8.1
Saskatchewan	7.9
Alberta	5.7
British Columbia	7.5

[1] Source — Statistics Canada.

Growth of the older population brought prominence to those diseases which are associated with the conditions of middle and old age, namely the cardio-vascular and renal diseases, and cancer as the leading causes of death. Another leading cause of death, accidents, came into prominence as a result of reductions in mortality from infections and certain other diseases once considered fatal.

Although there have been small fluctuations in the rate of infant deaths per 1,000 live births, on the whole this rate has been decreasing steadily since the record high of 92 infant deaths per 1,000 live births in 1923.

Maternal mortality has been virtually eliminated in Saskatchewan, with one maternal death occurring in 1989 and with no maternal deaths occurring in 1988.

Natural Increase

During 1989, the net increase was less than the natural increase in population, indicating net migration to the province.

Marriages

During the 1930's, the marriage rate declined. A rise occurred during World War II, followed by a declining trend until 1962. The rate had been rising since 1962 until 1977 and 1978 which again showed a declining trend. The rate for 1989 was slightly lower than in 1988 (6.6 and 6.7 respectively).

Marriage Rate per 1,000 Population, Canada and Provinces, 1989[1]

	Rate
Canada	7.3
Newfoundland	6.8
Prince Edward Island	7.8
Nova Scotia	7.9
New Brunswick	7.3
Quebec	5.0
Ontario	8.4
Manitoba	7.2
Saskatchewan	6.6
Alberta	8.2
British Columbia	8.3

[1] Source — Statistics Canada.

Divorces and Annulments

In 1989 there were 2,417 divorces and annulments in Saskatchewan, with a rate of 240 per 100,000 population. This is a decrease over the 1988 rate of 242 per 100,000 population.

Introduction (Continued)

Table 1. Summary of Vital Statistics, Saskatchewan, 1984-1989

Item	1984	1985	1986	1987	1988	1989
Population (1,000's)	1,006	1,020	1,010	1,014	1,011	1,007
Live births	18,014	18,162	17,513	17,034	16,763	16,651
Rate*	17.9	17.8	17.3	16.8	16.6	16.5
Deaths	7,710	8,031	8,061	7,808	8,100	7,920
Rate*	7.7	7.9	8.0	7.7	8.0	7.9
Natural increase	10,304	10,131	9,452	9,226	8,663	8,731
Rate*	10.2	9.9	9.4	9.1	8.6	8.6
Gross reproduction rate	1.028	1.007	1.014	0.999	1.007	1.013
Infant deaths	169	200	157	155	140	134
Rate†	9.4	11.0	9.0	9.1	8.4	8.0
Neonatal deaths	101	123	96	87	84	81
Rate†	5.6	6.8	5.5	5.1	5.0	4.9
Perinatal deaths						
Based on 20+ weeks gestation period for stillbirths	214	207	181	163	162	160
Rate††	11.8	11.3	10.3	9.5	9.6	9.6
Based on 28+ weeks gestation period for stillbirths	173	166	143	135	130	129
Rate††	9.6	9.1	8.1	7.9	7.7	7.7
Stillbirths						
20+ weeks gestation	128	111	108	95	94	96
Rate†	7.0	6.1	6.2	5.6	5.6	5.8
28+ weeks gestation	87	70	70	67	62	65
Rate†	4.8	3.8	4.0	3.9	3.7	3.9
Marriages	7,213	7,132	6,820	6,853	6,767	6,637
Rate*	7.2	7.0	6.8	6.8	6.7	6.6
Divorces and annulments	1,988	1,927	2,449	2,909	2,442	2,417
Rate**	198	189	243	287	242	240

* Rate per 1,000 population.
† Rate per 1,000 live births.
†† Rate per 1,000 total births (live births and stillbirths).
** Rate per 100,000 population.

Introduction (Continued)

Table 2. Natural Increase and Actual Increase, Saskatchewan, 1961-1989

Year	Population	Live births	Deaths	Natural increase		Estimated actual increase	
				Number	Rate*	Number	Rate*
1961	925,181	23,994	7,107	16,887	18.3	10,181	11.0
1962	930,000	23,341	7,004	16,337	17.6	4,819	5.2
1963	933,000	23,543	7,441	16,102	17.2	3,000	3.2
1964	942,000	22,682	7,373	15,309	16.3	9,000	9.6
1965	950,000	20,494	7,417	13,077	13.8	8,000	8.4
1966	955,344	19,037	7,427	11,610	12.2	5,344	5.6
1967	957,000	17,993	7,441	10,552	11.0	1,656	1.7
1968	960,000	18,197	7,498	10,699	11.1	3,000	3.1
1969	958,000	17,592	7,492	10,100	10.5	-2,000	-2.1
1970	941,000	16,443	7,472	8,971	9.5	-17,000	-18.1
1971	926,242	16,054	7,413	8,641	9.3	-14,758	-15.9
1972	914,000	15,473	7,590	7,883	8.6	-12,242	-13.4
1973	904,500	14,806	7,646	7,160	7.9	-9,500	-10.5
1974	899,700	15,118	7,814	7,304	8.1	-4,800	-5.3
1975	907,400	15,265	7,672	7,593	8.4	7,700	8.5
1976	921,325	15,969	7,809	8,160	8.9	13,925	15.1
1977	937,000	16,547	7,593	8,954	9.6	15,675	16.7
1978	948,400	16,551	7,749	8,802	9.3	11,400	12.0
1979	959,000	16,944	7,369	9,575	10.0	10,600	11.0
1980	970,100	17,057	7,651	9,406	9.7	11,100	11.4
1981	968,310	17,209	7,523	9,686	10.0	-1,790	-1.8
1982	979,100	17,722	8,202	9,520	9.7	10,790	11.0
1983	992,700	17,847	7,611	10,236	10.3	13,600	13.7
1984	1,006,200	18,014	7,710	10,304	10.2	13,500	13.4
1985	1,019,500	18,162	8,031	10,131	9.9	13,300	13.0
1986	1,009,615	17,513	8,061	9,452	9.4	-9,885	-9.8
1987	1,014,000	17,034	7,808	9,226	9.1	4,385	4.3
1988	1,011,200	16,763	8,100	8,663	8.6	-2,800	-2.8
1989	1,006,700	16,651	7,920	8,731	8.6	-4,500	-4.5

* Rate per 1,000 population.

Introduction (Continued)

Table 3. Live Births and Deaths by Place of Occurrence and Place of Residence, Saskatchewan, 1989*

Item	Live births	Deaths
OCCURRING IN SASKATCHEWAN	16,572	7,879
Saskatchewan residents	16,226	7,744
Non-residents	346	135
— Canadian residents	339	123
— United States residents	5	8
— Other	2	4
OCCURRING TO SASKATCHEWAN RESIDENTS	16,651	7,920
In Saskatchewan	16,226	7,744
Elsewhere	425	176
— In Canada	423	174
— In United States	2	2

* Source — Statistics Canada.

Introduction (Continued)

Table 4. Population of Saskatchewan by Age Groups and Sex, 1987-1989*

Age group	1987		1988		1989	
	Number	Per cent	Number	Per cent	Number	Per cent
	Both sexes					
All ages	1,014,000	100.0	1,011,200	100.0	1,006,700	100.0
0-4	85,900	8.5	84,600	8.4	83,900	8.3
5-9	82,900	8.2	83,100	8.2	82,100	8.2
10-14	78,100	7.7	78,400	7.8	78,000	7.7
15-19	77,700	7.7	76,400	7.6	74,900	7.4
20-24	85,100	8.4	79,600	7.9	75,000	7.5
25-29	88,600	8.7	87,700	8.7	86,200	8.6
30-34	83,800	8.3	84,300	8.3	83,500	8.3
35-39	68,100	6.7	70,000	6.9	71,800	7.1
40-44	54,700	5.4	56,700	5.6	58,900	5.9
45-49	45,400	4.5	46,400	4.6	47,300	4.7
50-54	43,600	4.3	43,200	4.3	42,900	4.3
55-59	44,900	4.4	44,200	4.4	43,500	4.3
60-64	44,100	4.3	43,800	4.3	43,300	4.3
65-69	41,100	4.1	41,000	4.1	41,500	4.1
70-74	35,300	3.5	35,300	3.5	35,400	3.5
75-79	25,700	2.5	26,300	2.6	27,300	2.7
80-84	16,400	1.6	17,100	1.7	17,400	1.7
85-89	8,300	0.8	8,800	0.9	9,200	0.9
90+	4,400	0.4	4,500	0.4	4,500	0.4
	Male					
All Ages	506,600	100.0	504,800	100.0	501,200	100.0
0-4	43,900	8.7	43,600	8.6	42,900	8.6
5-9	42,800	8.4	42,700	8.5	41,800	8.3
10-14	39,600	7.8	39,900	7.9	39,900	8.0
15-19	39,800	7.9	39,100	7.7	38,300	7.6
20-24	42,900	8.5	40,300	8.0	38,200	7.6
25-29	44,800	8.8	44,100	8.7	43,300	8.6
30-34	42,600	8.4	42,700	8.5	42,100	8.4
35-39	34,900	6.9	35,900	7.1	36,700	7.3
40-44	27,800	5.5	28,800	5.7	29,800	5.9
45-49	22,700	4.5	23,400	4.6	23,600	4.7
50-54	22,000	4.3	21,700	4.3	21,600	4.3
55-59	22,400	4.4	22,200	4.4	21,700	4.3
60-64	21,600	4.3	21,400	4.2	21,100	4.2
65-69	19,300	3.8	19,400	3.8	19,700	3.9
70-74	16,100	3.2	16,000	3.2	16,100	3.2
75-79	11,500	2.3	11,600	2.3	11,800	2.4
80-84	7,000	1.4	7,300	1.4	7,300	1.5
85-89	3,300	0.7	3,500	0.7	3,800	0.8
90+	1,500	0.3	1,500	0.3	1,500	0.3

Introduction (Continued)

Table 4. Population of Saskatchewan by Age Groups and Sex, 1987-1989* (Continued)

Age group	1987		1988		1989	
	Number	Per cent	Number	Per cent	Number	Per cent
	Female					
All ages	507,400	100.0	506,400	100.0	505,500	100.0
0-4	41,900	8.3	41,000	8.1	40,900	8.1
5-9	40,100	7.9	40,400	8.0	40,300	8.0
10-14	38,500	7.6	38,500	7.6	38,100	7.5
15-19	37,900	7.5	37,300	7.4	36,600	7.2
20-24	42,200	8.3	39,300	7.8	36,800	7.3
25-29	43,800	8.6	43,700	8.6	42,900	8.5
30-34	41,200	8.1	41,600	8.2	41,500	8.2
35-39	33,200	6.5	34,100	6.7	35,100	6.9
40-44	26,900	5.3	27,900	5.5	29,100	5.8
45-49	22,600	4.5	23,000	4.5	23,600	4.7
50-54	21,600	4.3	21,500	4.2	21,300	4.2
55-59	22,500	4.4	22,000	4.3	21,800	4.3
60-64	22,500	4.4	22,500	4.4	22,200	4.4
65-69	21,800	4.3	21,700	4.3	21,800	4.3
70-74	19,200	3.8	19,300	3.8	19,300	3.8
75-79	14,200	2.8	14,700	2.9	15,500	3.1
80-84	9,400	1.9	9,800	1.9	10,100	2.0
85-89	5,000	1.0	5,200	1.0	5,500	1.1
90+	3,000	0.6	3,000	0.6	3,000	0.6

* Columns may not add to totals due to rounding error.

Source — 1987, 1988 and 1989: Statistics Canada Postcensal Population Estimates, Publication No. 91-210

Introduction (Continued)

Table 5. Summary of Population and Vital Statistics for Incorporated Urban Places of 1,000 Population and Over, Saskatchewan, 1989

Place of residence	Population*	Live births	Deaths	Infant deaths	Neonatal deaths	Still-births	Perinatal deaths	Marriages
Total for Province	1,009,613	16,651	7,920	134	81	96	160	6,637
Cities	506,250	9,125	3,831	70	43	43	77	4,301
Estevan	10,161	182	82	3	2	1	2	99
Lloydminster (Sask.)	7,155	201	38	—	—	3	3	33
Melfort	6,078	110	103	—	—	—	—	47
Melville	5,123	67	84	—	—	1	1	36
Moose Jaw	35,073	524	358	6	4	1	5	267
North Battleford	14,876	292	139	2	1	3	4	109
Prince Albert	33,686	737	315	8	4	2	4	309
Regina	175,064	3,102	1,064	27	18	13	28	1,327
Saskatoon	177,641	3,306	1,196	20	12	16	26	1,715
Swift Current	15,666	219	144	2	1	2	2	142
Weyburn	10,153	135	136	1	1	1	2	73
Yorkton	15,574	250	172	1	—	—	—	144
Towns	113,364	1,973	1,586	18	12	8	19	927
Assiniboia	3,001	53	41	—	—	—	—	27
Battleford	3,833	69	48	1	—	—	—	47
Biggar	2,626	30	39	—	—	—	—	16
Canora	2,602	23	49	—	—	—	—	18
Carlyle	1,172	33	14	—	—	—	—	10
Carnduff	1,090	17	26	—	—	—	—	5
Carrot River	1,101	19	17	—	—	—	—	15
Churchbridge	1,035	25	6	—	—	—	—	14
Coronach	1,006	22	5	1	—	1	1	6
Creighton	1,620	36	12	—	—	—	—	5
Dalmeny	1,328	35	11	—	—	—	—	7
Davidson	1,183	12	18	—	—	1	1	11
Esterhazy	3,083	42	34	—	—	—	—	37
Eston	1,383	21	19	—	—	—	—	5
Foam Lake	1,535	31	35	—	—	—	—	12
Fort Qu'Appelle	1,915	44	40	—	—	1	1	13
Gravelbourg	1,305	15	29	1	1	—	1	16
Grenfell	1,274	20	30	—	—	—	—	10
Gull Lake	1,164	12	22	—	—	—	—	4
Hudson Bay	2,133	35	23	—	—	—	—	19
Humboldt	5,089	83	55	1	—	—	—	33
Indian Head	1,886	32	31	—	—	—	—	12

Introduction (Continued)

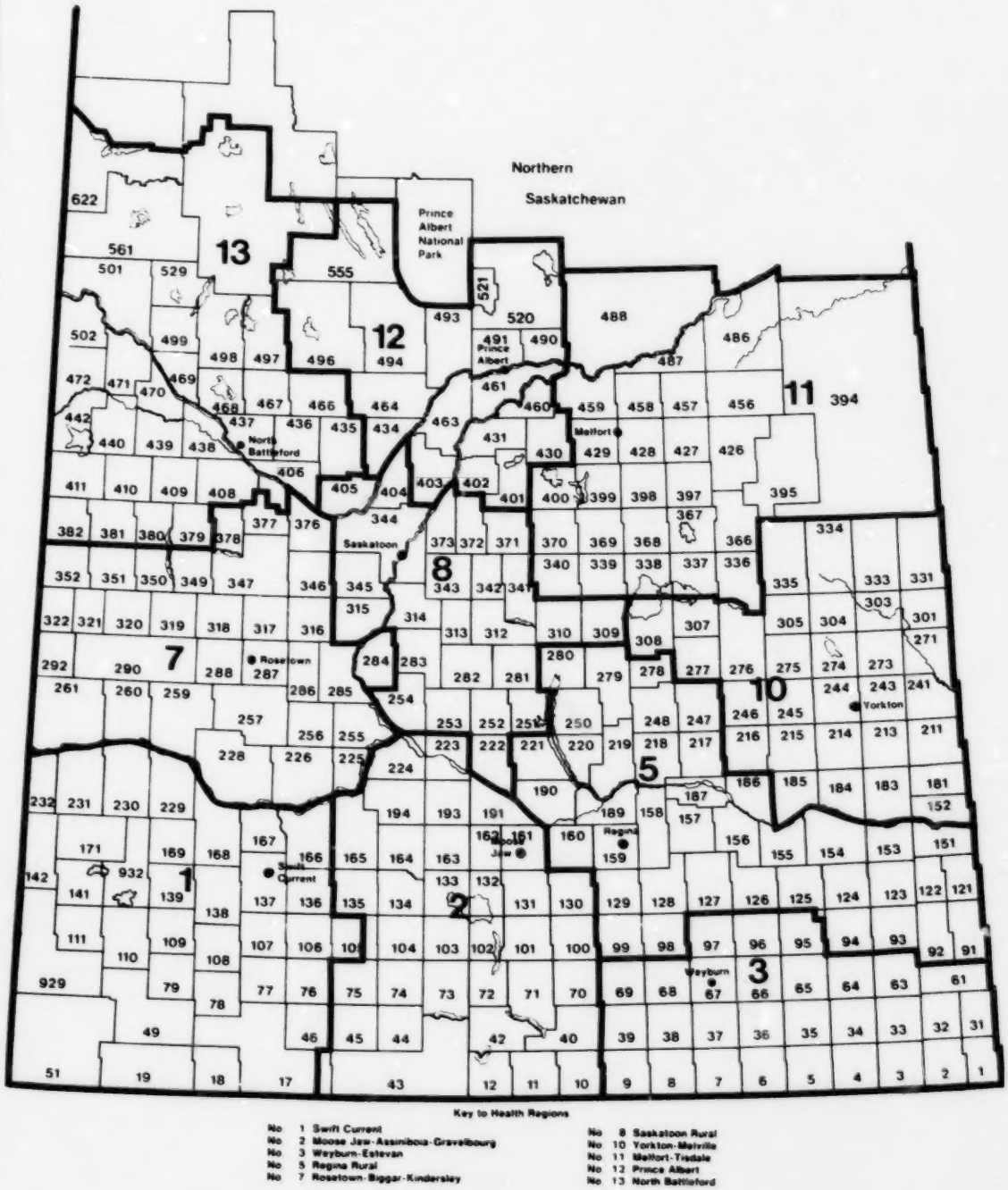
Table 5. Summary of Population and Vital Statistics for Incorporated Urban Places of 1,000 Population and Over, Saskatchewan, 1989 (Continued)

Place of residence	Population*	Live births	Deaths	Infant deaths	Neonatal deaths	Still-births	Perinatal deaths	Marriages
Kamsack	2,565	48	54	—	—	—	—	20
Kelvington	1,084	11	20	—	—	1	1	13
Kerrobert	1,288	17	15	—	—	—	—	10
Kindersley	4,912	112	56	1	1	1	2	53
Kipling	1,033	18	25	—	—	—	—	18
La Ronge	2,696	125	20	4	2	—	2	28
Langenburg	1,371	22	27	—	—	—	—	11
Langham	1,193	11	12	1	1	—	1	9
Lanigan	1,698	13	23	—	—	—	—	7
Leader	1,130	10	19	—	—	—	—	5
Lumsden	1,369	17	17	—	—	—	—	16
Macklin	1,131	22	8	—	—	—	—	11
Maidstone	1,112	10	9	—	—	—	—	4
Maple Creek	2,452	45	41	—	—	1	1	25
Martensville	2,760	54	5	—	—	—	—	8
Meadow Lake	3,976	137	54	1	—	1	1	41
Moosomin	2,557	40	42	—	—	—	—	22
Nipawin	4,588	78	76	1	1	—	1	35
Outlook	2,137	28	18	1	1	—	1	11
Oxbow	1,229	18	9	—	—	—	—	7
Pilot Butte	1,387	26	7	1	1	—	—	2
Preeceville	1,272	21	33	—	—	—	—	12
Rosetown	2,663	36	31	—	—	—	—	27
Rosthern	1,594	20	22	—	—	—	—	18
Shaunavon	2,153	21	45	1	1	1	2	14
Shellbrook	1,238	21	21	—	—	—	—	8
Spiritwood	1,025	11	18	—	—	—	—	10
Tisdale	3,184	53	43	2	2	—	2	28
Unity	2,471	35	27	—	—	—	—	25
Wadena	1,602	20	25	—	—	—	—	8
Wakaw	1,010	10	20	—	—	—	—	9
Warman	2,455	56	21	1	1	—	1	18
Watrous	1,953	26	27	—	—	—	—	12
Whitewood	1,107	24	23	—	—	—	—	13
Wilkie	1,526	28	31	—	—	—	—	7
Wynyard	2,079	20	38	—	—	—	—	20

* Population at the time of the 1986 census.

Health Regions

Figure 1. Health Region Map



Health Regions (Continued)

Since Saskatchewan has no fixed political divisions corresponding to the counties of eastern Canada, census divisions have been used in the past for the presentation of statistical data for areas smaller than the province. These were designed to permit future subdivisions, if necessitated by population increases, without destroying comparability of information collected by earlier census counts.

In the meantime, certain demographic, economic and social patterns had begun to emerge in the province. For general public health purposes, vital statistics must be presented in a form which can be related to these patterns. With this in mind, commencing in 1954, the tabulations of vital statistics by health statistical areas was undertaken, in close collaboration with the Dominion Bureau of Statistics. These areas represented territorial divisions of the province, each one of which is served by one or two dominant urban centres. As of 1974, vital statistics are presented by Health Regions. The cities of Regina and Saskatoon, with their own health departments, and *Northern Saskatchewan* form separate reporting areas.

The presentation of data on births, deaths and marriages according to health regions enables medical health officers, and others engaged in administrative or epidemiological tasks, to relate these and all other relevant data in a meaningful way.

Births by Health Region

Birth rates for health regions in 1989 ranged from a high 31.7 per 1,000 population in the sparsely populated *Northern Saskatchewan* area to a low 11.7 in the Yorkton-Melville region. The Northern areas (North Battleford, Prince Albert and the *Northern Health Services*) and the largest cities (Regina and Saskatoon) have shown consistently high birth rates over the years with *Northern Saskatchewan* being the highest.

These high birth rates coupled with relatively low death rates have given the northern areas and the largest cities, rates of natural increase higher than other areas in the province.

Deaths by Health Region

In 1989, the Yorkton-Melville region had the highest death rate (10.6 per 1,000 population). *Northern Saskatchewan* had the lowest rate (4.4 per 1,000 population). Deaths and rates by health regions are found in Table 7, page 22.

Table 6. Population of Health Regions, Saskatchewan, 1989

Health Regions	Population
Total for Province	**1,036,862**
No. 1 Swift Current	46,415
No. 2 Moose Jaw-Assiniboia-Gravelbourg	67,259
No. 3 Weyburn-Estevan	50,447
No. 5 Regina Rural	76,850
No. 7 Rosetown-Biggar-Kindersley	39,706
No. 8 Saskatoon Rural	48,503
No. 10 Yorkton-Melville	79,435
No. 11 Melfort-Tisdale	70,966
No. 12 Prince Albert	81,133
No. 13 North Battleford	83,106
Regina City	178,348
Saskatoon City	183,896
Northern Saskatchewan	30,798

Source: Health Insurance Registration Covered Population

Health Regions (Continued)

Table 7. Summary of Vital Statistics for Health Regions, Saskatchewan Residents, 1989

Health regions	Live births		Deaths		Natural increase		Marriages	
	Number	Rate*	Number	Rate*	Number	Rate*	Number	Rate*
Total for province	16,651	16.1	7,920	7.6	8,731	8.4	6,637	6.4
No. 1 Swift Current	608	13.1	391	8.4	217	4.7	271	5.8
No. 2 Moose Jaw-Assiniboia-Gravelbourg	988	14.7	629	9.4	359	5.3	403	6.0
No. 3 Weyburn-Estevan	697	13.8	472	9.4	225	4.5	296	5.9
No. 5 Regina Rural	941	12.2	619	8.1	322	4.2	318	4.1
No. 7 Rosetown-Biggar-Kindersley	613	15.4	308	7.8	305	7.7	180	4.5
No. 8 Saskatoon Rural	680	14.0	308	6.4	372	7.7	207	4.3
No. 10 Yorkton-Melville	930	11.7	843	10.6	87	1.1	481	6.1
No. 11 Melfort-Tisdale	928	13.1	655	9.2	273	3.8	380	5.4
No. 12 Prince Albert	1,365	16.8	677	8.3	688	8.5	513	6.3
No. 13 North Battleford	1,518	18.3	621	7.5	897	10.8	423	5.1
City of Regina	3,102	17.4	1,064	6.0	2,038	11.4	1,327	7.4
City of Saskatoon	3,306	18.0	1,196	6.5	2,110	11.5	1,715	9.3
Northern Saskatchewan	975	31.7	137	4.4	838	27.2	123	4.0

Health regions	Infant deaths		Neonatal deaths		Stillbirths**		Perinatal deaths**	
	Number	Rate†	Number	Rate†	Number	Rate†	Number	Rate††
Total for province	134	8.0	81	4.9	96	5.8	160	9.6
No. 1 Swift Current	5	8.2	4	6.6	6	9.9	9	14.7
No. 2 Moose Jaw-Assiniboia-Gravelbourg	10	10.1	6	6.1	5	5.1	10	10.1
No. 3 Weyburn-Estevan	7	10.0	3	4.3	3	4.3	5	7.1
No. 5 Regina Rural	3	3.2	2	2.1	8	8.5	—	—
No. 7 Rosetown-Biggar-Kindersley	6	9.8	3	4.9	4	6.5	7	11.3
No. 8 Saskatoon Rural	5	7.4	4	5.9	2	2.9	6	8.8
No. 10 Yorkton-Melville	3	3.2	2	2.2	2	2.2	4	4.3
No. 11 Melfort-Tisdale	8	8.6	5	5.4	7	7.5	12	12.8
No. 12 Prince Albert	15	11.0	9	6.6	6	4.4	11	8.0
No. 13 North Battleford	10	6.6	4	2.6	14	9.2	16	10.4
City of Regina	27	8.7	18	5.8	13	4.2	28	9.0
City of Saskatoon	20	6.0	12	3.6	16	4.8	26	7.8
Northern Saskatchewan	15	15.4	9	9.2	10	10.3	18	18.3

* Rate per 1,000 live population — Health Insurance Registration Covered Population.
† Rate per 1,000 live births.
** Based on 20+ weeks gestation.
†† Rate per 1,000 total births.

Health Regions (Concluded)

Table 8. Selected Leading Causes of Death by Residence, Saskatchewan, 1989

Place of residence	Cause of death								
	All deaths	Heart diseases (A128-A148)	Malignant neoplasms (A37-A86)	Cerebro-vascular disease (A149-A155)	Accidents (AE234-AE263)	Pneumonia (A163-A167)	Certain causes of perinatal mortality (A229-A231)	Suicide and self-inflicted injury (A264-A270)	Other
Total for province	7,920	2,591	1,827	660	450	347	64	124	1,857
Cities* (with more than 5,000 population)	3,833	1,225	894	302	152	172	33	76	979
Estevan (3)	82	28	15	6	6	2	—	1	24
Melfort (11)	105	39	21	9	5	3	—	—	28
Melville (10)	84	31	19	6	—	11	—	1	16
Moose Jaw (2)	358	120	93	17	13	13	3	6	93
North Battleford (13)	139	34	28	20	6	5	1	3	42
Prince Albert (12)	315	102	77	26	10	14	2	8	76
Regina	1,064	320	265	95	40	46	17	24	257
Saskatoon	1,196	379	265	76	60	53	9	28	326
Swift Current (1)	144	42	30	9	9	13	1	—	40
Weyburn (3)	136	49	27	12	2	6	—	1	39
Yorkton (10)	172	72	44	20	1	5	—	3	27
Lloydminster (Sask.) (13)	38	9	10	6	—	1	—	1	11
Health regions (excluding cities)	4,087	1,366	933	358	298	175	31	48	878
No. 1 Swift Current	247	88	59	28	15	10	3	1	43
No. 2 Moose Jaw-Assiniboia-Gravelbourg	271	102	66	15	18	12	2	3	53
No. 3 Weyburn-Estevan	254	85	49	22	22	15	—	1	60
No. 5 Regina Rural	619	216	131	47	52	23	2	8	140
No. 7 Rosetown-Biggar-Kindersley	308	84	76	31	21	21	6	1	68
No. 8 Saskatoon Rural	308	111	74	26	19	9	—	5	64
No. 10 Yorkton-Melville	587	213	139	67	34	21	1	3	109
No. 11 Melfort-Tisdale	550	182	140	55	28	22	5	9	109
No. 12 Prince Albert	362	107	87	34	25	19	4	6	80
No. 13 North Battleford	444	153	93	28	37	18	1	5	109
Northern Saskatchewan	137	25	19	5	27	5	7	6	43

* Health region number is given in parenthesis.

Birth Rate

There were 16,651 live births to Saskatchewan residents in 1989, resulting in a birth rate of 16.5 per 1,000 population.

Multiple Births

Multiple births in 1989 included 183 sets of twins, and 2 sets of triplets. Two sets of twins included one stillborn infant.

Births in Hospitals

In 1989, 29 births did not occur in hospital.

Births by Sex

Continuing a long-term trend, there were more male live births than female live births in 1989, numbering 8,592 and 8,059 respectively, a ratio of 1,066 male to 1,000 female live births.

Male Live Births per 1,000 Female Live Births	
1977	1,055
1978	1,053
1979	1,052
1980	1,080
1981	1,070
1982	1,024
1983	1,027
1984	1,047
1985	1,078
1986	1,056
1987	1,048
1988	1,041
1989	1,066

Births Occurring to Single Mothers

There was an increase in the number of babies born to single mothers in 1989, numbering 4,534 compared to 4,327 in 1988. The single parent live births increased to 27.2 per cent of all births.

The average age of unmarried mothers was lower (22.5) than that of married mothers (27.6).

Stillbirths

The minimum gestational period for compulsory registration of foetal deaths was lowered from 28 weeks to 20 weeks in 1961 due to a change in the definition of stillbirth. Using this definition, there were 96 stillbirths in the province in 1989, giving a rate of 5.8 per 1,000 live births. Stillbirths occurred most frequently in .he gestation periods of 20-27 and 33-37 weeks. Males accounted for 50.0 per cent of total stillbirths. The average age of mothers bearing stillborn children was 25.5 years. The average age of mothers whose children were liveborn was 26.2 years.

Fertility Rates

The crude birth rate, i.e. the rate per 1,000 total population, is an inadequate measure of the rate at which the population is replacing itself because it is so much affected by changes in the age and sex composition of the population.

Almost all children born each year are to women between the ages of 15 and 49 — with very small numbers above and below these ages. Variations in the proportion of women of these ages to the total population will cause variations in the crude birth rates of different countries or even regions within a country or a province, even though the actual rates of reproduction or fertility of the women in those age groups are identical. It is therefore conventional to calculate an age specific fertility rate, i.e. an individual birth rate per 1,000 women in each of these reproductive age periods. The sum of these rates multiplied by five represents the "total fertility", that is, the number of births which 1,000 women would have throughout their lifetime, assuming no mortality, if they experienced at each age the fertility in effect during the period concerned.

From this in turn can be calculated a gross reproduction rate, which for a given year represents the average number of female infants that would be born to each woman who lived to reach the age of 50 if the fertility rates of a given year remained unchanged. When the gross reproduction rate falls below one, the women in the reproductive period of life are not having enough children to replace themselves, even if all their children lived to maturity.

Births (Continued)

Age Specific Fertility Rates, Saskatchewan, 1989

Age groups	Rate per 1,000
15-19	46.7
20-24	118.8
25-29	147.0
30-34	80.4
35-39	22.6
40-44	3.2
45-49	0.2
Total Fertility	2,094
Gross Reproduction Rate	1.013

Age of Parents

The average age of parents is determined by the interaction of several factors, the most important of which are age at marriage, the length of time between marriage and the arrival of the first child, and the spacing of additional children during the mother's reproductive period.

In 1989, the average age of fathers was 29.6 years, of married mothers 27.6 years, and of unmarried mothers 22.5 years.

Birth Order

Thirty-seven per cent of all live births were first children and 54 per cent of the mothers of these first-born were under 25 years of age. 12.6 per cent of first-born infants were to mothers over 30 years of age. First, second, and third children made up 88 per cent of total births, and 39.9 per cent of these mothers were under 25 years of age. Average age of mothers for first-born infants for 1989 was 24.0 years.

Birth Weight

Birth weight information provides the number of immaturely-developed live deliveries, those which are exposed to a greater risk of death than a "mature" infant. The recommendations of the World Health Organization specify that infants of 2500 grams or less at birth (approximately 5 pounds, 8 ounces) be considered "immature".

The average weight of all infants born in 1989 was 3414.4 grams. There is a direct relationship between the age of mother and birth weight. The proportion of "immature" births by age of mother reveals that a mother has a greater chance of delivering an "immature" foetus at less than 20 years or over 40 years of age than at any other age in the reproductive period. This data is illustrated on page 28, table 13.

There is also a relationship between the weight of the foetus and period of gestation. Of the 3.9 per cent of children born in 1989 at less than 36 weeks gestation, 77.9 per cent were "immature". Of those born in the period of 36 to 39 weeks, 5.6 per cent were classified as "immature" and of those born after 40 weeks gestation only 0.7 per cent weighed 2500 grams or less. This data is illustrated on page 29, table 14.

Births (Continued)

Table 9. Stillbirths by Sex and Period of Gestation, Saskatchewan, 1989

Period of gestation (weeks)	Number			Per cent distribution		
	Total	Male	Female	Total	Male	Female
Total	96	48	48	100.0	50.0	50.0
20-27	31	17	14	32.3	54.8	45.2
28-32	17	7	10	17.7	41.2	58.8
33-37	21	12	9	21.9	57.1	42.9
38-40	17	7	10	17.7	41.2	58.8
41 +	10	5	5	10.4	50.0	50.0

Table 10. Live Births and Stillbirths by Age of Mother, Saskatchewan, 1989*

Age group	All births		Type of birth			
			Live births		Stillbirths	
	Number	Per cent	Number	Per cent	Number	Per cent
Total	16,747	100.0	16,651	100.0	96	100.0
Under 20	1,722	10.3	1,710	10.3	12	12.5
20-24	4,413	26.4	4,377	26.3	36	37.5
25-29	6,356	38.0	6,332	38.0	24	25.0
30-34	3,359	20.1	3,341	20.1	18	18.8
35-39	799	4.8	794	4.8	5	5.2
40-44	93	0.6	92	0.6	1	1.0
45-49	5	**	5	**	—	—
Average age		26.2		26.2		25.5
Median age		26.0		26.0		26.0

* This table shows the number of births and stillbirths occuring to mothers in these age groups, and not the actual number of mothers in each group, as not all births were single births.

** Less than 0.1 per cent.

Births (Continued)

Table 11. Live Births by Age of Parent, Saskatchewan, 1989*

Age group	Fathers		Married mothers		Unmarried mothers	
	Number	Per cent	Number	Per cent	Number	Per cent
Total	16,651	100.0	12,117	100.0	4,534	100.0
Under 20	2,701	16.2	237	2.0	1,473	32.5
20-24	2,027	12.2	2,660	22.0	1,717	37.9
25-29	5,210	31.3	5,440	44.9	892	19.7
30-34	4,346	26.1	3,001	24.8	340	7.5
35-39	1,725	10.4	695	5.7	99	2.2
40-44	477	2.9	79	0.7	13	0.3
45-49	114	0.7	5	**	—	—
50+	51	0.3	—	—	—	—
Not stated	—	—	—	—	—	—
Average age†		29.6		27.6		22.5
Median age†		29.0		27.0		21.0

* This table shows the number of live births occuring to parents in these age groups, and not the actual number of parents in each age group, as not all births were single births.

† Average and median ages were calculated using single year age groups.

** Less than 0.05 per cent.

Table 12. Live Births by Age of Mother and Order of Birth, Saskatchewan, 1989

Order of birth	Age of mother									
	Total	Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45+	Not stated
Total	16,651	26	1,684	4,377	6,332	3,341	794	92	5	—
1st child	6,093	26	1,265	2,022	2,010	635	126	9	—	—
2nd child	5,319	—	353	1,470	2,207	1,063	208	17	1	—
3rd child	3,161	—	55	622	1,378	897	192	17	—	—
4th child	1,225	—	10	186	473	426	113	16	1	—
5th child	441	—	—	57	161	157	58	8	—	—
6th child	197	—	1	18	55	77	41	5	—	—
7th child	94	—	—	1	32	37	17	5	2	—
8th child	64	—	—	1	10	27	20	6	—	—
9th child	35	—	—	—	6	15	10	4	—	—
10th child	10	—	—	—	—	5	3	2	—	—
11th child	5	—	—	—	—	—	4	1	—	—
12th child	2	—	—	—	—	1	1	—	—	—
13th child	3	—	—	—	—	1	1	1	—	—
14th child	1	—	—	—	—	—	—	1	—	—
16th child	1	—	—	—	—	—	—	—	1	—

Births (Continued)

Table 13. Live Births by Age of Mother and Birth Weight, Saskatchewan, 1989

Birth weight			Age of mother							
Gram intervals	Equivalent in lbs./oz.	Total	-20 years	20-24	25-29	30-34	35-39	40-44	45+	Not stated
Total		16,651	1,710	4,377	6,332	3,341	794	92	5	—
500 or less	1/1 or less	12	2	3	4	3	—	—	—	—
501-750	1/2-1/10	24	3	5	6	9	1	—	—	—
751-1,000	1/11-2/3	26	4	7	10	5	—	—	—	—
1,001-1,250	2/4-2/12	29	5	7	10	6	1	—	—	—
1,251-1,500	2/13-3/4	55	6	13	19	11	4	2	—	—
1,501-1,750	3/5-3/13	87	12	23	29	18	2	2	1	—
1,751-2,000	3/14-4/6	117	15	22	41	33	3	2	1	—
2,001-2,250	4/7-4/15	195	22	44	80	35	13	1	—	—
2,251-2,500	5/0-5/8	361	47	88	132	70	21	3	—	—
Total 2,500 or less	5/8 or less	906	116	212	331	190	45	10	2	—
2,501-2,750	5/9-6/1	797	97	245	272	136	42	5	—	—
2,751-3,000	6/2-6/9	1,540	152	413	617	282	65	10	1	—
3,001-3,250	6/10-7/2	2,536	276	692	995	461	106	6	—	—
3,251-3,500	7/3-7/11	3,383	345	938	1,237	686	162	15	—	—
3,501-3,750	7/12-8/4	3,115	313	783	1,200	663	140	16	—	—
3,751-4,000	8/5-8/13	2,200	198	555	863	461	109	14	—	—
4,001-4,250	8/14-9/6	1,213	120	296	462	268	60	5	2	—
4,251-4,500	9/7-9/14	617	60	157	227	129	39	5	—	—
4,501-4,750	9/15-10/7	226	21	61	85	41	17	1	—	—
4,751-5,000	10/8-11/0	83	5	17	30	20	7	4	—	—
5,001-5,250	11/1-11/9	27	7	7	10	2	1	—	—	—
5,251-5,500	11/10-12/2	5	—	1	3	—	1	—	—	—
5,501-5,750	12/3-12/10	2	—	—	—	1	—	1	—	—
5,751-6,000	12/11-13/3	1	—	—	—	1	—	—	—	—
Total 2,501+	over 5/8	15,745	1,594	4,165	6,001	3,151	749	82	3	—
Not stated		—	—	—	—	—	—	—	—	—
Per cent of total		100.0	10.3	26.3	38.0	20.1	4.8	0.6	*	—
Per cent 2,500 grams or less		5.4	6.8	4.8	5.2	5.7	5.7	10.9	40.0	—
Average weight (grams)		3,414.4	3,370.6	3,402.5	3,419.8	3,433.5	3,453.5	3,425.0	2,916.0	—
Median weight (grams)		3,440.0	3,402.0	3,420.0	3,450.0	3,470.0	3,458.0	3,505.0	2,870.0	—

* Less than 0.05 per cent.

Births (Continued)

Table 14. Live Births by Period of Gestation and Birth Weight, Saskatchewan, 1989

Birth weight			Period of gestation							
Gram intervals	Equivalent in lbs./oz.	Total	-20 weeks	20-23	24-27	28-31	32-35	36-39	40+	Not stated
Total		16,651	—	19	44	110	446	6,032	9,980	—
500 or less	1/1 or less	12	—	12	—	—	—	—	—	—
501-750	1/2-1/10	24	—	7	15	1	1	—	—	—
751-1,000	1/11-2/3	26	—	—	20	5	1	—	—	—
1,001-1,250	2/4-2/12	29	—	—	8	18	3	—	—	—
1,251-1,500	2/13-3/4	55	—	—	—	37	17	—	1	—
1,501-1,750	3/5-3/13	87	—	—	1	31	43	12	—	—
1,751-2,000	3/14-4/6	117	—	—	—	13	72	25	7	—
2,001-2,250	4/7-4/15	195	—	—	—	3	102	76	14	—
2,251-2,500	5/0-5/8	361	—	—	—	1	87	223	50	—
Total 2,500 or less	5/8 or less	906	—	19	44	109	326	336	72	—
2,501-2,750	5/9-6/1	797	—	—	—	—	64	521	212	—
2,751-3,000	6/2-6/9	1,540	—	—	—	1	34	914	591	—
3,001-3,250	6/10-7/2	2,536	—	—	—	—	19	1,189	1,328	—
3,251-3,500	7/3-7/11	3,383	—	—	—	—	11	1,289	2,083	—
3,501-3,750	7/12-8/4	3,115	—	—	—	—	5	912	2,198	—
3,751-4,000	8/5-8/13	2,200	—	—	—	—	5	524	1,671	—
4,001-4,250	8/14-9/6	1,213	—	—	—	—	2	209	1,002	—
4,251-4,500	9/7-9/14	617	—	—	—	—	—	98	519	—
4,501-4,750	9/15-10/7	226	—	—	—	—	—	25	201	—
4,751-5,000	10/8-11/0	83	—	—	—	—	—	9	74	—
5,001-5,250	11/1-11/9	27	—	—	—	—	—	5	22	—
5,251-5,500	11/10-12/2	5	—	—	—	—	—	—	5	—
5,501-5,750	12/3-12/10	2	—	—	—	—	—	—	2	—
5,751-6,000	12/11-13/3	1	—	—	—	—	—	1	—	—
Total 2,501+	over 5/8	15,745	—	—	—	1	140	5,696	9,908	—
Not stated		—	—	—	—	—	—	—	—	—
Per cent of total		100.0	—	0.1	0.3	0.7	2.8	36.2	59.9	—
Per cent 2,500 grams or less		5.4	—	100.0	100.0	99.1	70.0	5.6	0.7	—
Average weight (grams)		3,414.4	—	446.7	857.2	1,474.4	2,294.8	3,257.8	3,599.7	—
Median weight (grams)		3,440.0	—	460.0	805.0	1,469.5	2,239.0	3,260.0	3,585.0	—

* Less than 0.05 per cent.

Births (Concluded)

Table 15. Live Births by Marital Status and Birth Weight for Mothers Under 20, Saskatchewan, 1989

Gram Intervals	Marital Status					
	Single	Married	Divorced	Widowed	Not Stated	Total
Total	**1,473**	**237**	—	—	—	**1,710**
500 or less	2	—	—	—	—	2
501 - 750	3	—	—	—	—	3
751 - 1,000	3	1	—	—	—	4
1,001 - 1,250	5	—	—	—	—	5
1,251 - 1,500	6	—	—	—	—	6
1,501 - 1,750	11	1	—	—	—	12
1,751 - 2,000	13	2	—	—	—	15
2,001 - 2,250	21	1	—	—	—	22
2,251 - 2,500	35	12	—	—	—	47
Total 2,500 or less	**99**	**17**	—	—	—	**116**
2,501 - 2,750	83	14	—	—	—	97
2,751 - 3,000	135	17	—	—	—	152
3,001 - 3,250	243	33	—	—	—	276
3,251 - 3,500	300	45	—	—	—	345
3,501 - 3,750	274	39	—	—	—	313
3,751 - 4,000	168	30	—	—	—	198
4,001 - 4,250	95	25	—	—	—	120
4,251 - 4,500	48	12	—	—	—	60
4,501 - 4,750	16	5	—	—	—	21
4,751 - 5,000	12	—	—	—	—	12
Not stated	—	—	—	—	—	—

Table 16. Live Births by Marital Status and Gestation for Mothers Under 20, Saskatchewan, 1989

Gestation	Marital Status					
	Single	Married	Divorced	Widowed	Not Stated	Total
20 weeks	2	—	—	—	—	2
24 weeks	2	—	—	—	—	2
25 weeks	2	—	—	—	—	2
26 weeks	2	1	—	—	—	3
27 weeks	1	—	—	—	—	1
28 weeks	6	—	—	—	—	6
29 weeks	5	—	—	—	—	5
30 weeks	3	—	—	—	—	3
31 weeks	4	—	—	—	—	4
32 weeks	12	1	—	—	—	13
33 weeks	7	—	—	—	—	7
34 weeks	14	3	—	—	—	17
35 weeks	18	5	—	—	—	23
36 weeks	44	10	—	—	—	54
37 weeks	67	12	—	—	—	79
38 weeks	163	25	—	—	—	188
39 weeks	250	41	—	—	—	291
40 weeks	549	94	—	—	—	643
Over 40 weeks	322	45	—	—	—	367
Total	**1,473**	**237**	—	—	—	**1,710**

Mortality

In 1989 death claimed 7,920 Saskatchewan residents constituting a crude death rate of 7.9 per 1,000 population.

Deaths by occurrence within the province amounted to 7,879. Of this total, 7,744 decedents were residents of Saskatchewan and 135 were non-residents. Deaths of Saskatchewan residents occurring outside the province numbered 176.

Age specific death rates generally form the following pattern. Beginning with a high rate for infants, the rate drops to a minimum at the 5 to 14 age group then rises in each subsequent age group.

As in past years, the male death rate (9.1 per 1,000 population) exceeded the female rate (6.7 per 1,000 population) in 1989 (based on Statistics Canada population estimates). The difference in mortality rates between the sexes is more pronounced with the advancement of age.

In 1989, 2.1 per cent of all male deaths occurred in the under 5 age group, 23.4 per cent in the 5 to 64 age groups and 74.5 per cent in the 65 and over age group. Of female deaths, 2.0 per cent occurred in the under 5 age group, 16.2 per cent between the ages of 5 and 64, and 81.5 per cent in the 65 and over group.

Table 17. Age Specific Death Rates (per 1,000 Population), Saskatchewan, 1977-1989*

Year	All ages	Age group					
		Under 5	5-14	15-24	25-44	45-64	65+
1977	8.1	4.0	0.4	1.6	1.6	7.0	50.3
1978	8.2	3.9	0.5	1.3	1.6	7.3	50.2
1979	7.7	3.2	0.4	1.4	1.6	7.1	46.3
1980	7.8	2.9	0.3	1.2	1.4	7.1	47.8
1981	7.8	3.1	0.4	1.2	1.4	7.1	46.1
1982	8.4	2.6	0.3	1.3	1.3	7.7	50.0
1983	7.7	2.5	0.3	1.1	1.3	6.6	45.7
1984	7.7	2.5	0.2	0.9	1.3	6.8	46.0
1985	7.9	2.7	0.3	1.0	1.2	7.0	47.0
1986	8.0	2.3	0.3	1.2	1.2	7.2	46.5
1987	7.7	2.2	0.4	1.1	1.1	6.6	44.8
1988	8.0	2.1	0.3	1.0	1.3	6.7	46.3
1989	7.9	2.0	0.2	0.8	1.2	6.2	45.4

* Rates were calculated using Statistics Canada population estimates.

Standardized (Age Adjusted) Death Rates

Analysis of mortality based on comparisons of crude death rates may prove to be unsatisfactory due to changes in the age composition of the population. A larger older population increases the risk of death, which will be reflected in the crude death rate. This factor may be corrected by determining what the mortality rate would have been had the age composition of the population remained constant over a series of years. Mortality rates are thus "standardized" to an arbitrary standard population, usually to the population in one particular year. The rates in Table 18 are standardized to the 1956 Saskatchewan census population.

Comparing the 1989 Saskatchewan crude death rate of 7.9 to the 1921 death rate of 7.4, there seems to be a deterioration. However, by "standardizing" (i.e. assuming that the age distribution of the population both in 1921 and 1989 was the same as in 1956), the results show a marked improvement since 1921.

Since 1921 the standardized death rate has been decreasing for both sexes. Female rates have decreased more rapidly, however, and over the years the gap between male and female rates has widened. In 1921, the standardized death rate for males was 10.5 per 1,000 population and for females 10.3. The 1989 figures are 5.9 per 1,000 population for males, and 3.5 for females.

Mortality (Continued)

Deaths in Hospitals

There were 5,543 deaths in hospitals in 1989 in the province as a whole (70.0 per cent). This is a slightly higher proportion than the 1988 level of 68.5 per cent.

Leading Causes of Death

There is a varying impact of diseases on the different stages of the life span. Diseases peculiar to early infancy, congenital anomalies and pneumonia are main causes of death in infancy, while accidents take the greatest toll in childhood and young adult groups. Heart diseases and cancer become the major causes of death to persons in the middle and older ages.

In 1989, the average life years lost per decedent were 15.02 for males and 15.30 for females.

Heart diseases were the leading cause of death in terms of life years lost, making up 23.2 per cent of the total. They were also highest in actual number of deaths, accounting for nearly one-third of the total. Malignant neoplasms were the second highest cause of life years lost, and second highest in actual number of deaths. Transport accidents were third highest in terms of life years lost.

Heart Disease

The proportion of older people in the population is increasing rapidly as a result of the lengthening life span. Since heart diseases are associated with the conditions of middle and old age, mortality from heart diseases have become a major cause of death.

Heart diseases accounted for 2,591 deaths in Saskatchewan in 1989 (249.9 per 100,000 population). (Rates referred to in this section were calculated using the HIR covered population). This is a decrease in number and rate from 1988.

Thirty-three per cent of all deaths in the province in 1989 were caused by heart diseases. Ischaemic heart disease was the leading cause of death in the 65 and over age group, and the second leading cause of death in the 45-64 age group, accounting for 27.1 and 22.0 per cent of deaths respectively. Of the total deaths due to heart diseases, 11.2 per cent were to persons in the 45-64 age group and 87.4 per cent in the 65 and over age group. Thus, almost all deaths caused by heart diseases (98.6 per cent) occurred to persons 45 years of age and over.

Ischaemic heart disease accounted for 74.3 per cent of total heart diseases, a rate of 185.6 per 100,000 population. Death rates from chronic rheumatic heart disease, hypertensive disease, and other forms of heart disease were 3.1, 3.9 and 57.5 per 100,000 population, respectively.

The male death rate from heart diseases (303.5) continued to be much higher than the female rate (211.7) with also a large difference in ischaemic heart disease, males (236.4) and females (146.2).

Malignant Neoplasms (Cancer)

As in the case of heart diseases, cancer remains a leading cause of death because of the increase of older persons in the population. This disease was the second leading cause of death in 1989. The proportion (23.1 per cent of total deaths) was slightly lower than in 1988. The number (1,827) and the rate (176.2 per 100,000 population) were lower than in 1988. (Rates referred to in this section were calculated using the HIR covered population).

Of the total deaths from cancer in Saskatchewan, 23.5 per cent were in the 45-64 age group and 72.1 per cent in the 65 plus group.

There was a decrease in the male cancer mortality rate from 218.4 in 1988 to 210.3 in 1989 and a decrease in the female rate from 159.0 in 1988 to 152.9 in 1989. More males die from cancer of trachea, bronchus and lungs, and more females die from breast cancer, than any other form.

Accidents and Violence

There were 612 deaths due to accidents in 1989 compared with 643 in 1988, with the rate per 100,000 population showing a decrease to 59.0 in 1989 from 61.4 in 1988. (Rates referred to in this section were calculated using the HIR covered population). The proportion of accidental deaths to all deaths decreased, from 7.9 in 1988 to 7.7 in 1989.

Accidents were a leading cause of death in all age groups from 1-34. Transport accidents were the leading cause of death in the ages 5-34.

The male accident rate was much higher than the female rate (84.4 and 37.4 per 100,000 population respectively).

The number of suicides in Saskatchewan in 1989 decreased to 124, giving a rate of 12.3 per 100,000 population.

Mortality (Continued)

Twenty per cent of all suicides in Saskatchewan were in the 15-24 age group; 82.3 per cent of all suicides were men.

Deaths from homicide and legal intervention totalled 23 in Saskatchewan in 1989. Of these victims 13 were males and 10 were females.

Table 18. Standardized* Mortality Rates for Saskatchewan, Decennial Census Years, 1921-89†

Year	Both sexes	Male	Female
1921	10.4	10.5	10.3
1931	10.0	10.0	10.0
1941	9.2	9.6	8.7
1951	7.8	8.4	7.1
1961	6.7	7.8	5.3
1971	5.9	7.3	4.5
1981	5.2	6.6	3.9
1989	4.6	5.9	3.5

* Standardized to the 1956 Saskatchewan census population.
† Source-Statistics Canada.

Table 19. Deaths by Age and Sex with Rates and Percentages, Saskatchewan, 1989

	Number			Rate per 1,000 population*			Per cent		
Age	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
Total	7,920	4,556	3,364	7.6	8.8	6.5	100.0	100.0	100.0
<1	134	79	55	8.4	9.7	7.0	1.7	1.7	1.6
1-4	32	18	14	0.5	0.5	0.4	0.4	0.4	0.4
5-9	17	8	9	0.2	0.2	0.2	0.2	0.2	0.3
10-14	16	8	8	0.2	0.2	0.2	0.2	0.2	0.2
15-19	57	36	21	0.7	0.9	0.6	0.7	0.8	0.6
20-24	69	51	18	0.9	1.2	0.5	0.9	1.1	0.5
25-29	68	56	12	0.7	1.2	0.3	0.9	1.2	0.4
30-34	88	68	20	1.0	1.5	0.5	1.1	1.5	0.6
35-39	98	60	38	1.3	1.6	1.1	1.2	1.3	1.1
40-44	95	53	42	1.6	1.7	1.4	1.2	1.2	1.2
45-49	124	80	44	2.6	3.3	1.9	1.6	1.8	1.3
50-54	190	131	59	4.4	6.0	2.7	2.4	2.9	1.8
55-59	293	188	105	6.6	8.5	4.8	3.7	4.1	3.1
60-64	498	325	173	11.4	15.1	7.8	6.3	7.1	5.1
65-69	734	457	277	17.5	22.9	12.6	9.3	10.0	8.2
70-74	950	612	338	26.8	37.7	17.6	12.0	13.4	10.0
75-79	1,165	710	455	42.3	59.2	29.2	14.7	15.6	13.5
80-84	1,247	698	549	71.1	95.2	53.8	15.7	15.3	16.3
85-89	1,035	542	493	111.7	146.5	88.6	13.1	11.9	14.7
90+	1,009	376	633	218.2	247.4	203.9	12.7	8.3	18.8
Not Stated	1	—	1	0.1	—	0.2	**	—	**

* Rates were calculated using the Health Insurance Registration Covered Population as of June 30, 1989.
** Less than 0.05 per cent.

Mortality (Continued)

Table 20. Leading Causes of Death in Each Age Group, Saskatchewan, 1989

Age group and cause of death	Deaths in specified age groups		Deaths at all ages from specified causes	
	Number	Percent	Number	Per cent in specified age group
Under 1 year	134	100.0	—	—
B45 Conditions in perinatal period	60	44.4	64	93.8
B44 Congenital anomalies	29	21.5	47	61.7
B46 Symptoms and ill-defined conditions	25	18.5	63	39.7
Other	20	15.6	—	—
1-4 years	32	100.0	—	—
BE52 Other accidents, late effects	9	28.1	80	11.3
B44 Congenital anomalities	5	15.6	47	10.6
B45 Conditions in perinatal period	4	12.5	64	6.3
BE47 Transport accidents	4	12.5	230	1.7
B28 Pulmonary and other heart disease	3	9.4	595	0.5
BE50 Accidental falls	2	6.3	96	2.1
BE55 Homicide and intentional injury	2	6.3	23	8.7
Other	3	9.4	—	—
5-14 years	33	100.0	—	—
BE47 Transport accidents	14	42.4	230	6.1
BE52 Other accidents late effects	6	18.2	80	7.5
B08-B14 Malignant neoplasms	3	9.1	1,827	0.2
B34 Other parts of digestive system	2	6.1	297	0.7
BE55 Homicide and intentional injurry	2	6.1	23	8.7
Other	6	18.2	—	—
15-24 years	126	100.0	—	—
BE47 Transport accidents	52	41.3	230	22.6
BE54 Suicide and self-inflicted injury	25	19.8	124	20.2
BE52 Other accidents late effects	8	6.3	80	10.0
BE55 Homicide and intentional injury	7	5.6	23	30.4
Other	34	27.0	—	—
25-34 years	156	100.0	—	—
BE47 Transport accidents	39	25.0	230	17.0
BE54 Suicide and self-inflicted injury	35	22.4	124	28.2
B08-B14 Malignant neoplasms	12	7.7	1,827	0.7
BE52 Other accidents, late effects	10	6.4	80	12.5
B34 Other parts of digestive system	9	5.8	297	3.0
Other	51	32.7	—	—
35-44 years	193	100.0	—	—
B08-B14 Malignant neoplasms	50	25.9	1,827	2.7
BE47 Transport accidents	31	16.1	230	13.5
BE54 Suicide and selft-inflicted injury	25	13.0	124	20.2
B27 Ischaemic heart disease	11	5.7	1,924	0.6
B28 Pulmonary and other heart disease	10	5.2	595	1.7
Other	66	34.2	—	—
45-64 years	1,105	100.0	—	—
B08-B14 Malignant neoplasms	437	39.5	1,827	23.9
B27 Ischaemic heart disease	243	22.0	1,924	12.6
B32 Other diseases of respiratory system	56	5.1	748	7.5
Other	369	33.4	—	—
65+	6,140	100.0	—	—
B27 Ischaemic heart disease	1,664	27.1	1,924	86.5
B08-B14 Malignant neoplasms	1,318	21.5	1,827	72.1
B32 Other diseases of respiratory system	677	11.0	748	90.5
B29 Cerebrovascular disease	605	9.9	660	91.7
B28 Pulmonary and other heart disease	537	8.7	595	90.3
Other	1,339	21.8	—	—

Mortality (Continued)

Table 21. Deaths from Leading Causes by Sex, with Per Cent Distribution and Rates Per 100,000 Population, Saskatchewan, 1988 and 1989

Causes of death ("B" List—9th Revision)	Number		Per cent		Rate†	
	1988	1989	1988	1989	1988	1989
	Both sexes					
All causes of death	8,100	7,920	100.0	100.0	775.7	763.8
B27 Ischaemic heart disease	1,980	1,924	24.4	24.3	189.6	185.6
B08-B14 Malignant neoplasms	1,971	1,827	24.3	23.1	188.8	176.2
B32 Other diseases of respiratory system	797	748	9.8	9.4	76.3	72.1
B29 Cerebrovascular disease	648	660	8.0	8.3	62.1	63.7
B28 Pulmonary and other heart disease	559	595	6.9	7.5	53.5	57.4
B34 Other parts of digestive system	295	297	3.6	3.8	28.3	28.6
B30 Other diseases of circulatory system	221	250	2.7	3.2	21.2	24.1
BE47 Transport accidents	220	230	2.7	2.9	21.1	22.2
B22 Diseases of the nervous system	184	196	2.3	2.5	17.6	18.9
B18 Endocrine and metabolic diseases	178	170	2.2	2.1	17.0	16.4
	Male					
All causes of death	4,690	4,556	100.0	100.0	895.2	877.0
B27 Ischaemic heart disease	1,223	1,185	26.1	26.0	233.4	228.1
B08-B14 Malignant neoplasms	1,144	1,054	24.4	23.1	218.4	202.9
B32 Other diseases of respiratory system	525	462	11.2	10.1	100.2	88.9
B29 Cerebrovascular disease	296	306	6.3	6.7	56.5	58.9
B28 Pulmonary and other heart disease	284	304	6.1	6.7	54.2	58.5
B34 Other parts of digestive system	146	163	3.1	3.6	27.9	31.4
BE47 Transport accidents	152	161	3.2	3.5	29.0	31.0
B30 Other diseases of circulatory system	131	146	2.8	3.2	25.0	28.1
B22 Diseases of the nervous system	97	111	2.1	2.4	18.5	21.4
BE54 Suicide and self-inflicted injury	121	102	2.6	2.2	23.1	19.6
	Female					
All causes of death	3,410	3,364	100.0	100.0	655.5	650.2
B08-B14 Malignant neoplasms	827	773	24.3	23.0	159.0	149.4
B27 Ischaemic heart disease	757	739	22.2	22.0	145.5	142.8
B29 Cerebrovascular disease	352	354	10.3	10.5	67.7	68.4
B28 Pulmonary and other heart disease	275	291	8.1	8.7	52.9	56.2
B32 Other diseases of respiratory system	272	286	8.0	8.5	52.3	55.3
B34 Other parts of digestive system	149	134	4.4	4.0	28.6	25.9
B30 Other diseases of circulatory system	90	104	2.6	3.1	17.3	20.1
B18 Endocrine and metabolic diseases	103	96	3.0	2.9	19.8	18.6
B22 Diseases of the nervous system	87	85	2.6	2.5	16.7	16.4
BE47 Transport accidents	68	69	2.0	2.1	13.1	13.3

† Rates were calculated using the Health Insurance Registration Covered Population as of June 30, 1988 and 1989.

Mortality (Continued)

Table 22. Life Years Lost* and Average Age of Decedents by Cause of Death, Saskatchewan, 1989

Cause of death ("B" List—9th Revision)	Total life years lost					Average age of decedents		Life years lost per decedent	
	Number			Per cent					
	Both sexes	Male	Female	Male	Female	Male	Female	Male	Female
2 Tuberculosis	79.26	64.57	14.69	81.47	18.53	59.17	72.50	21.52	14.69
3 Other bacterial diseases	436.67	319.70	116.97	73.21	26.79	69.01	81.10	16.83	10.63
4 Viral diseases	430.09	251.94	178.15	58.58	41.42	42.50	57.90	35.99	29.69
7 Other infectious, parasitic diseases	14.69	0.00	14.49	0.00	100.00	—	72.50	—	14.69
8 Malignant neoplasm of lip, oral cavity, pharynx	619.17	461.38	157.79	74.52	25.48	66.81	67.80	15.91	19.72
9 Malignant neoplasm of digestive organs, peritoneum	7,004.84	3,839.32	3,165.52	54.81	45.19	72.56	74.77	12.80	14.26
10 Malignant neoplasm of respiratory and related organs	6,988.50	4,288.33	2,700.17	61.36	38.64	70.51	67.48	13.74	19.29
11 Malignant neoplasm of bone, skin, breast	3,643.99	376.79	3,267.20	10.34	89.66	65.91	68.29	17.94	19.11
12 Malignant neoplasm of genitourinary organs	3,896.62	2,403.68	1,492.94	61.69	38.31	76.23	72.10	10.59	16.23
13 Malignant neoplasm of other and unspecified sites	2,219.44	1,001.61	1,217.83	45.13	54.87	67.16	68.57	16.98	18.74
14 Malignant neoplasm of lymph and haemopoietic tissue	3,102.77	1,824.64	1,278.13	58.81	41.19	66.67	71.12	17.21	17.04
15 Benign neoplasm	104.95	37.62	67.33	35.85	64.15	62.50	71.85	18.81	16.83
17 Other and unspecified neoplasm	523.93	215.72	308.21	41.17	58.83	73.31	75.88	12.69	14.01
18 Endocrine and metabolic diseases	2,291.38	915.73	1,375.65	39.96	60.04	74.35	76.01	12.37	14.33
19 Nutritional deficiencies	98.36	43.16	55.20	43.88	56.12	85.90	86.36	6.17	7.89
20 Diseases of blood and blood-forming organs	354.41	205.24	149.17	57.91	42.09	81.22	81.73	8.55	10.66
21 Mental disorders	922.07	440.39	481.68	47.76	52.24	73.23	79.40	12.95	13.02
22 Diseases of the nervous system	3,370.76	1,835.90	1,534.86	54.47	45.53	68.99	70.78	16.54	18.06
25 Rheumatic fever/heart disease	484.69	151.11	333.58	31.18	68.82	75.83	72.35	10.79	16.68
26 Hypertensive disease	378.07	185.58	192.49	49.09	50.91	78.55	83.07	9.28	9.62
27 Ischaemic heart disease	21,442.48	13,609.58	7,832.90	63.47	36.53	74.97	80.92	11.48	10.60
28 Pulmonary and other heart disease	6,323.67	3,395.20	2,928.47	53.69	46.31	76.48	82.77	11.17	10.06
29 Cerebrovascular disease	6,604.53	3,024.85	3,579.68	45.80	54.20	78.31	81.95	9.89	10.11
30 Other diseases of the circulatory system	2,731.02	1,614.19	1,116.83	59.11	40.89	75.84	80.94	11.06	10.74
31 Diseases of the upper respiratory tract	56.91	19.32	37.59	33.95	66.05	85.63	71.20	6.44	18.80
32 Other diseases of the respiratory system	7,764.90	4,457.73	3,307.17	57.41	42.59	79.01	80.29	9.65	11.56
34 Other parts of digestive system	4,398.55	2,505.75	1,892.80	56.97	43.03	69.92	76.33	15.37	14.13
35 Diseases of urinary system	1,367.68	785.57	582.11	57.44	42.56	77.00	80.46	10.76	11.64

Mortality (Continued)

Table 22. Life Years Lost* and Average Age of Decedents by Cause of Death, Saskatchewan, 1989 (Continued)

Cause of death ("B" List—9th Revision)	Total life years lost					Average age of decedents		Life years lost per decedent	
	Number			Per cent					
	Both sexes	Male	Female	Male	Female	Male	Female	Male	Female
36 Diseases of male genital organs	50.27	50.27	0.00	100.00	0.00	71.25	—	12.57	—
37 Diseases of female genital organs	42.13	0.00	42.13	0.00	100.00	—	68.70	—	21.07
39 Direct obstetric causes	59.70	0.00	59.70	0.00	100.00	—	22.50	—	59.70
42 Diseases of skin	17.10	17.10	0.00	100.00	0.00	87.30	—	5.70	—
43 Musculoskeletal and connective tissue	665.19	146.06	519.13	21.96	78.04	75.92	69.60	12.17	19.23
44 Congenital anomalies	2,998.02	1,241.31	1,756.71	41.40	58.60	17.15	14.25	59.11	67.57
45 Conditions in perinatal period	4,881.46	2,872.53	2,008.93	58.85	41.15	0.15	0.36	73.65	80.36
46 Symptoms and ill-defined conditions	2,306.72	1,160.30	1,146.42	50.30	49.70	37.17	59.50	44.63	30.98
E 47 Transport accidents	8,951.05	6,030.08	2,920.97	67.37	32.63	41.35	41.46	37.45	42.33
E 48 Accidental poisoning	856.98	498.59	358.39	58.18	41.82	42.50	38.13	35.61	44.80
E 49 Misadventures during medical care	124.43	32.31	92.12	25.97	74.03	78.97	72.46	10.77	18.42
E 50 Accidental falls	1,239.53	796.03	443.50	64.22	35.78	71.38	83.43	15.92	9.64
E 51 Accidents caused by fires and flames	535.39	490.23	45.16	91.57	8.43	40.96	37.50	37.71	45.16
E 52 Other accidents, late effects	2,952.17	2,065.92	886.25	69.98	30.02	43.22	48.26	36.24	38.53
E 54 Suicide and self-inflicted injury	4,808.97	3,802.32	1,006.65	79.07	20.93	41.17	37.27	37.28	45.76
E 55 Homicide and intentional injury	1,217.51	611.86	605.65	50.26	49.74	29.81	21.62	47.07	60.56
E 56 Other violence	532.45	329.04	203.04	61.80	38.20	47.00	42.50	32.90	40.68
Total	119,893.47	68,418.55	51,474.92	57.07	42.93	70.72	74.97	15.02	15.30

* Based on "Life Tables, Canada and the Provinces, 1985-1987", prepared by Statistics Canada, Ottawa, Ontario, September, 1989.

Mortality (Continued)

Table 23. Deaths by Age and Sex According to Intermediate List of Mortality Causes with Rates per 100,000 Population, Saskatchewan, 1989

Cause of death		All ages			
		Both sexes			
		Number	Rate	Male	Female
All causes		7,920	763.8	4,556	3,364
A 7	Tuberculosis of respiratory system	2	0.2	2	—
A 8	Other tuberculosis	2	0.2	1	1
A 13	Meningococcal infection	1	0.1	1	—
A 15	Septicemia	27	2.6	17	10
A 16	All other bacterial diseases	2	0.2	1	1
A 22	Viral hepatitis	1	0.1	—	1
A 23	Other viral diseases	12	1.2	7	5
A 32	Mycoses	1	0.1	—	1
A 37	Malignant neoplasm of lip	1	0.1	1	—
A 38	Malignant neoplasm of tongue	14	1.4	9	5
A 39	Malignant neoplasm of pharynx	13	1.3	12	1
A 40	Malignant neoplasms of other and ill-defined sites within the lip, oral cavity, and pharynx	9	0.9	7	2
A 41	Malignant neoplasm of esophagus	29	2.8	21	8
A 42	Malignant neoplasm of stomach	71	6.8	47	24
A 43	Malignant neoplasm of small intestine, inc. duod.	2	0.2	1	1
A 44	Malignant neoplasms of hepatic and splenic flexures and transverse colon	3	0.3	2	1
A 45	Malignant neoplasm of descending colon	3	0.3	1	2
A 46	Malignant neoplasm of signoid colon	14	1.4	6	8
A 47	Malignant neoplasms of caecum, appendix, and ascending colon	15	1.4	5	10
A 48	Malignant neoplasms other and colon, unspecified	117	11.3	64	53
A 49	Malignant neoplasms of rectum, rectosignoid junction and anus	65	6.3	38	27
A 50	Malignant neoplasms of liver, primary	7	0.7	5	2
A 51	Malignant neoplasm of intrahepatic bile ducts	5	0.5	4	1
A 52	Malignant neoplasm of liver, not specified as primary or secondary	25	2.4	17	8
A 53	Malignant neoplasms of gallbladder and extrahepatic bile ducts	25	2.4	13	12
A 54	Malignant neoplasms of pancreas	87	8.4	37	50
A 55	Malignant neoplasms of retroperitoneum, peritoneum and other ill-defined sites	54	5.2	39	15
A 56	Malignant neoplasm of larynx	12	1.2	11	1
A 57	Malignant neoplasms of trachea, bronchus, and lung	435	42.0	298	137
A 58	Malignant neoplasms of all other and ill-defined sites within respiratory system	5	0.5	3	2
A 59	Malignant neoplasms of bone and articular cartilage	7	0.7	4	3
A 60	Malignant neoplasms of connective and other soft tissue	6	0.6	4	2
A 61	Melanoma of skin	13	1.3	7	6
A 62	Other malignant neoplasms of skin	7	0.7	4	3
A 63	Malignant neoplasm of female breast	157	15.1	—	157
A 64	Malignant neoplasm of male breast	2	0.2	2	—
A 65	Malignant neoplasm of cervix uteri	8	0.8	—	8
A 66	Malignant neoplasms of other parts of uterus	19	1.8	—	19
A 67	Malignant neoplasms of ovary and other uterine adnexa	41	4.0	—	41
A 68	Malignant neoplasms of other and unspecified female genital organs	4	0.4	—	4
A 69	Malignant neoplasm of prostate	165	15.9	165	—
A 71	Malignant neoplasm of penis and other male genital organs	2	0.2	2	—
A 72	Malignant neoplasm of bladder	37	3.6	26	11

Mortality (Continued)

Age group												
Under 15		15-24		25-44		45-64		65-74		75+		
M	F	M	F	M	F	M	F	M	F	M	F	
113	87	87	39	237	112	724	381	1,069	615	2,326	2,130	—
—	—	—	—	—	—	1	—	1	—	—	—	A 7
—	—	—	—	1	—	—	—	—	1	—	—	A 8
—	—	—	—	—	—	—	—	—	—	1	—	A 13
1	—	—	—	2	—	2	1	4	1	8	8	A 15
—	—	—	—	—	—	—	—	1	—	—	1	A 16
—	—	—	1	—	—	—	—	—	—	—	—	A 22
—	1	—	—	5	—	1	—	—	2	1	2	A 23
—	—	—	—	—	—	—	—	—	1	—	—	A 32
—	—	—	—	—	—	—	—	—	—	1	—	A 37
—	—	—	—	—	1	2	1	5	1	2	2	A 38
—	—	—	—	—	—	6	1	2	—	4	—	A 39
—	—	—	—	1	—	5	—	—	1	1	1	A 40
—	—	—	—	—	—	10	2	6	3	5	3	A 41
—	—	—	—	—	—	9	7	14	8	24	9	A 42
—	—	—	—	—	—	—	—	—	—	1	1	A 43
—	—	—	—	—	—	—	—	1	1	1	—	A 44
—	—	—	—	—	—	—	—	—	—	1	2	A 45
—	—	—	—	—	—	1	2	4	1	1	5	A 46
—	—	—	—	—	—	1	1	1	2	3	7	A 47
—	—	—	—	3	1	12	9	19	17	30	26	A 48
—	—	—	—	1	1	11	4	10	5	16	17	A 49
—	—	—	—	—	—	—	—	2	1	3	1	A 50
—	—	—	—	1	—	—	—	2	—	1	1	A 51
—	—	—	—	—	—	4	1	4	3	9	4	A 52
—	—	—	—	—	—	3	1	4	3	6	8	A 53
—	—	—	—	1	—	8	8	11	17	17	25	A 54
—	—	—	—	3	—	5	4	9	4	22	7	A 55
—	—	—	—	—	—	—	—	1	—	2	1	A 56
—	—	—	—	3	5	86	48	101	49	108	35	A 57
—	—	—	—	—	—	1	—	1	—	1	2	A 58
—	—	—	—	2	—	1	—	—	—	1	3	A 59
—	—	—	—	—	—	1	1	3	—	—	1	A 60
—	—	—	—	1	2	2	2	2	2	2	—	A 61
—	—	—	—	1	—	—	—	—	1	3	2	A 62
—	—	—	—	—	11	—	44	—	53	—	49	A 63
—	—	—	—	—	—	—	—	2	—	—	—	A 64
—	—	—	—	—	1	—	3	—	2	—	2	A 65
—	—	—	—	—	—	—	1	—	5	—	13	A 66
—	—	—	—	—	—	—	19	—	10	—	12	A 67
—	—	—	—	—	—	—	—	—	1	—	3	A 68
—	—	—	—	—	—	12	—	50	—	103	—	A 69
—	—	—	—	—	—	—	—	1	—	1	—	A 71
—	—	—	—	—	—	6	1	8	3	12	7	A 72

Mortality (Continued)

Table 23. Deaths by Age and Sex According to Intermediate List of Mortality Causes with Rates per 100,000 Population, Saskatchewan, 1989 (Continued)

	Cause of death	All ages			
		Both sexes			
		Number	Rate	Male	Female
A 73	Malignant neoplasm of kidney and other unspecified urinary organs	43	4.1	34	9
A 74	Malignant neoplasm of eye	2	0.2	2	—
A 75	Malignant neoplasm of brain	32	3.1	21	11
A 77	Malignant neoplasms of thyroid gland and other endocrine glands and related structures	5	0.5	4	1
A 78	Malignant neoplasms of all other and unspecified sites	85	8.2	32	53
A 79	Lymphosarcoma and reticulosarcoma	8	0.8	3	5
A 80	Hodgkins disease	5	0.5	2	3
A 81	Other malignant neoplasms of lymphoid and histiocytic tissue	60	5.8	35	25
A 82	Multiple myeloma and innumoproliferative neoplasms	39	3.8	21	18
A 83	Lymphoid leukemia	22	2.1	13	9
A 84	Myeloid leukemia	27	2.6	19	8
A 85	Monocytic leukemia	2	0.2	2	—
A 86	Other and unspecified leukemia	18	1.7	11	7
A 88	Benign neoplasm of eye, brain, nervous system	4	0.4	1	3
A 89	All other and unspecified sites	2	0.2	1	1
A 92	Neoplasms of uncertain behavior	19	1.8	11	8
A 93	Neoplasms of unspecified nature	20	1.9	6	14
A 94	Disorders of thyroid gland	5	0.5	1	4
A 95	Diabetes mellitus	128	12.3	55	73
A 98	Disorders of adrenal glands	1	0.1	1	—
A 100	Obesity	5	0.5	3	2
A 101	All other indocrine and metabolic diseases and immunity disorders	31	3.0	14	17
A 102	Nutritional marasmus	2	0.2	1	1
A 103	Other protein-calorie malnutrition	11	1.1	5	6
A 104	Other nutritional deficiencies	1	0.1	1	—
A 105	Deficienct anemias	2	0.2	2	—
A 106	Hemolytic anemias	3	0.3	2	1
A 107	Aplastic anemia	5	0.5	3	2
A 108	Other and unspecified anemias	20	1.9	13	7
A 109	Purpura and hemorrhagic conditions	3	0.3	—	3
A 110	All other diseases of blood and blood-forming organs	5	0.5	4	1
A 111	Senile and presenile organic psychotic conditions	25	2.4	6	19
A 112	Alcoholic psychoses	1	0.1	1	—
A 113	All other psychoses	14	1.4	6	8
A 114	Alcohol dependence syndrome	13	1.3	12	1
A 116	Other neurotic, personality, and nonpsychotic mental disorders	14	1.4	8	6
A 117	Mental retardation	4	0.4	1	3
A 118	Meningitis	4	0.4	3	1
A 119	Parkinsons disease	28	2.7	20	8
A 120	Other hereditary and degenerative diseases of the central nervous system	96	9.3	43	53
A 121	Multiple sclerosis	10	1.0	6	4
A 122	Infantile cerebral palsy	1	0.1	1	—
A 123	Epilepsy	17	1.6	11	6
A 124	Other disorders of nervous system	40	3.9	27	13
A 127	Acute rheumatic fever	2	0.2	2	—
A 128	Diseases of mitral valve	17	1.6	7	10
A 129	Disease of aortic valve	2	0.2	1	1
A 130	Diseases of mitral and aortic valves	3	0.3	1	2

Mortality (Continued)

Age group												
Under 15		15-24		25-44		45-64		65-74		75+		
M	F	M	F	M	F	M	F	M	F	M	F	
—	—	—	—	2	—	10	2	10	3	12	4	A 73
—	—	—	—	1	—	1	—	—	—	—	—	A 74
2	—	—	—	3	1	10	4	1	4	5	2	A 75
—	—	—	—	—	—	1	1	3	—	—	—	A 77
—	—	—	1	—	3	6	14	12	12	14	23	A 78
—	—	—	—	—	—	1	1	—	—	2	4	A 79
—	—	—	1	1	—	—	—	—	2	1	—	A 80
—	—	1	—	2	1	9	3	8	11	15	10	A 81
—	—	—	—	1	—	5	3	7	6	8	9	A 82
1	1	—	1	—	—	3	—	2	—	7	7	A 83
—	—	—	—	5	1	3	1	9	4	2	2	A 84
—	—	1	—	—	—	—	—	—	—	1	—	A 85
—	—	1	—	1	1	4	1	1	2	4	3	A 86
—	—	—	—	—	—	1	1	—	1	—	1	A 88
—	—	—	—	—	—	—	—	1	—	—	1	A 89
—	—	—	—	—	—	2	1	3	2	6	5	A 92
—	—	—	—	—	1	2	1	2	5	2	7	A 93
—	—	—	—	—	—	—	1	1	—	—	3	A 94
—	—	—	—	1	5	6	7	13	17	35	44	A 95
—	—	—	—	—	—	—	—	—	—	1	—	A 98
—	—	—	—	—	—	2	—	—	1	1	1	A 100
1	—	—	1	2	—	2	2	1	1	8	13	A 101
—	—	—	—	—	—	—	—	—	—	1	1	A 102
—	—	—	—	—	—	—	—	—	1	5	5	A 103
—	—	—	—	—	—	—	—	—	—	1	—	A 104
—	—	—	—	—	—	—	—	—	—	2	—	A 105
—	—	—	—	—	—	1	—	—	1	1	—	A 106
—	—	—	—	—	—	—	—	1	1	2	1	A 107
—	—	—	—	—	—	—	—	2	1	11	6	A 108
—	—	—	—	—	—	—	—	—	1	—	2	A 109
—	—	—	—	—	—	—	1	2	—	2	—	A 110
—	—	—	—	—	—	—	—	1	2	5	17	A 111
—	—	—	—	—	—	1	—	—	—	—	—	A 112
—	—	—	—	—	—	—	—	—	1	6	7	A 113
—	—	—	—	—	—	3	1	6	—	3	—	A 114
—	—	—	1	—	—	4	1	1	—	3	4	A 116
—	—	—	—	1	3	—	—	—	—	—	—	A 117
2	1	—	—	—	—	—	—	1	—	—	—	A 118
—	—	—	—	—	—	—	—	6	—	14	8	A 119
—	—	—	—	2	—	5	8	6	12	30	33	A 120
—	—	—	—	—	3	2	1	2	—	2	—	A 121
1	—	—	—	—	—	—	—	—	—	—	—	A 122
—	—	1	—	4	2	2	2	3	1	1	1	A 123
1	—	2	2	2	3	7	1	4	3	11	4	A 124
—	—	—	—	—	—	—	—	1	—	1	—	A 127
—	—	—	—	—	2	1	1	2	3	4	4	A 128
—	—	—	—	—	—	—	—	—	—	1	1	A 129
—	—	—	—	—	—	—	—	1	—	—	2	A 130

Mortality (Continued)

Table 23. Deaths by Age and Sex According to Intermediate List of Mortality Causes with Rates per 100,000 Population, Saskatchewan, 1989 (Continued)

Cause of death	All ages			
	Both sexes			
	Number	Rate	Male	Female
A 131 All other chronic rheumatic heart disease	10	1.0	3	7
A 132 Essential hypertension	9	0.9	4	5
A 133 Hypertensive heart disease	19	1.8	12	7
A 134 Hypertensive renal disease	11	1.1	4	7
A 135 Hypertensive heart and renal diseases	1	0.1	—	1
A 136 Acute myocardial infarction	1,198	115.5	743	455
A 137 Ischaemic heart disease	14	1.4	12	2
A 138 Angina pectoris	5	0.5	3	2
A 139 All other forms of chronic ischaemic heart disease	707	68.2	427	280
A 140 Diseases of pulmonary circulation	69	6.7	42	27
A 141 Acute and subacute endocarditis	2	0.2	1	1
A 142 Acute pericarditis, acute myocarditis, and other diseases of pericardium	4	0.4	1	3
A 143 Mitral valve disorders	4	0.4	2	2
A 144 Aortic valve disorders	28	2.7	21	7
A 145 Other diseases of endocardium	17	1.6	8	9
A 146 Heart failure	231	22.3	99	132
A 147 Myocarditis, unspecified and myocardial degeneration	8	0.8	2	6
A 148 All other and ill-defined forms of heart disease	232	22.4	128	104
A 149 Subarachnoid hemorrhage	32	3.1	12	20
A 150 Intracerebral and other intracranial haemorrhage	92	8.9	47	45
A 151 Occlusion and stenosis of precerebral arteries	4	0.4	2	2
A 152 Cerebral thrombosis and unspecified occlusion of cerebral arteries	78	7.5	46	32
A 153 Cerebral embolism	2	0.2	1	1
A 154 Acute but ill-defined cerebrovascular disease	394	38.0	181	213
A 155 Other and late effects of cerebrovascular diseases	58	5.6	17	41
A 156 Atherosclerosis	91	8.8	43	48
A 157 Aortic aneurysm	95	9.2	63	32
A 158 All other diseases of arteries, arterioles, and capillaries	39	3.8	24	15
A 159 Phlebitis, thrombophlebitis, and venous embolism and thrombosis	19	1.8	12	7
A 160 All other diseases of veins and lymphatics, and other diseases of circulatory system	6	0.6	4	2
A 161 Upper respiratory infections	1	0.1	—	1
A 162 Other diseases of upper respiratory	4	0.4	3	1
A 163 Acute bronchitis, bronchiolitis	2	0.2	1	1
A 164 Viral pneumonia	4	0.4	1	3
A 165 Pneumococcal and other bacterial pneumonia	17	1.6	11	6
A 166 Bronchopneumonia, organism unspecified	129	12.4	68	61
A 167 Pneumonia due to other and unspecified organism	195	18.8	109	86
A 168 Influenza	7	0.7	1	6
A 169 Bronchitis, not specified as acute or chronic	3	0.3	2	1
A 170 Chronic bronchitis	19	1.8	14	5
A 171 Emphysema	45	4.3	33	12
A 172 Asthma	23	2.2	7	16
A 173 Bronchiectasis and extrinsic allergic alveolitis	7	0.7	6	1
A 174 Chronic airways obstruction, not elsewhere classified	220	21.2	163	57
A 175 Pneumoconioses and other lung disease due to external agents	15	1.4	11	4
A 176 Empyema and abscess of lung	2	0.2	—	2
A 177 Pleurisy	5	0.5	2	3
A 178 All other diseases of respiratory system	55	5.3	33	22
A 180 Gastric ulcer	13	1.3	7	6

Mortality (Continued)

Age group												
Under 15		15-24		25-44		45-64		65-74		75+		
M	F	M	F	M	F	M	F	M	F	M	F	
—	—	—	—	—	—	1	2	1	1	1	4	A 131
—	—	—	—	—	—	1	—	—	2	3	3	A 132
—	—	—	—	—	—	—	—	4	—	8	7	A 133
—	—	—	—	—	—	—	1	2	1	2	5	A 134
—	—	—	—	—	—	—	—	—	—	—	1	A 135
—	—	—	—	9	1	131	27	215	98	388	329	A 136
—	—	—	—	—	—	3	—	5	2	4	—	A 137
—	—	—	—	—	—	—	—	—	—	3	2	A 138
—	—	—	—	6	1	66	16	95	35	260	228	A 139
2	—	—	—	2	—	5	2	13	8	20	17	A 140
—	—	—	—	—	1	1	—	—	—	—	—	A 141
—	1	—	—	—	1	—	—	1	—	—	1	A 142
—	—	—	—	—	—	1	—	—	—	1	2	A 143
—	—	—	—	—	—	4	—	9	1	8	6	A 144
—	—	—	—	—	—	1	1	2	—	5	8	A 145
—	—	—	—	—	1	2	1	11	6	86	124	A 146
—	—	—	—	—	—	—	1	—	1	2	4	A 147
1	1	1	—	5	2	16	5	37	12	68	84	A 148
—	—	—	—	2	3	6	5	2	8	2	4	A 149
—	—	—	—	2	—	12	9	8	9	25	27	A 150
—	—	—	—	—	—	—	—	1	1	1	1	A 151
—	—	—	—	—	—	2	1	15	5	29	26	A 152
—	—	—	—	—	—	—	—	1	—	—	1	A 153
—	—	—	—	—	—	7	5	31	17	143	191	A 154
—	—	—	—	—	—	—	1	4	2	13	38	A 155
—	—	—	—	—	—	3	—	4	4	36	44	A 156
—	—	—	—	—	—	6	4	24	11	31	17	A 157
—	—	—	—	—	—	2	2	9	2	13	11	A 158
—	—	—	—	2	—	4	1	—	2	6	4	A 159
—	—	—	—	—	—	1	1	2	—	1	1	A 160
—	—	—	—	—	—	—	1	—	—	—	—	A 161
—	—	—	—	—	—	—	—	—	—	3	1	A 162
—	—	—	—	—	—	1	—	—	—	—	1	A 163
—	—	—	—	—	—	—	—	1	1	—	2	A 164
—	—	—	—	—	—	2	—	1	—	8	6	A 165
1	1	—	—	—	—	3	1	7	2	57	57	A 166
3	—	—	—	—	—	3	3	11	10	92	73	A 167
—	—	—	—	—	—	—	—	—	—	1	6	A 168
—	—	—	—	—	—	—	—	2	—	—	1	A 169
—	—	—	—	—	—	—	1	—	2	14	2	A 170
—	—	—	—	—	—	—	3	16	4	17	5	A 171
—	—	1	1	1	3	—	4	1	2	4	6	A 172
—	—	—	—	—	—	2	1	1	—	3	—	A 173
—	—	—	—	—	1	11	5	41	14	111	37	A 174
—	—	—	—	—	—	1	—	1	—	9	4	A 175
—	—	—	—	—	—	—	1	—	1	—	—	A 176
—	—	—	—	—	—	—	1	1	1	1	1	A 177
1	—	—	—	—	2	9	4	9	3	14	13	A 178
—	—	—	—	1	1	1	—	1	1	4	4	A 180

Mortality (Continued)

Table 23. Deaths by Age and Sex According to Intermediate List of Mortality Causes with Rates per 100,000 Population, Saskatchewan, 1989 (Continued)

	Cause of death	All ages			
		Both sexes			
		Number	Rate	Male	Female
A 181	Duodenal ulcer	25	2.4	15	10
A 182	Peptic ulcer, site unspecified	9	0.9	7	2
A 183	Gastritis and duodenitis	6	0.6	3	3
A 184	Appendicitis	2	0.2	2	—
A 185	Hernia of abdominal cavity and intestinal obstruction without mention of hernia	31	3.0	14	17
A 186	Regional enteritis and idiopathic proctocolitis	4	0.4	3	1
A 187	Gastroenteritis and colitis	21	2.0	8	13
A 188	Diverticular of intestine	19	1.8	3	16
A 189	Chronic liver disease and cirrhosis, specified as alcoholic	33	3.2	26	7
A 190	Chronic hepatitis and biliary cirrhosis	3	0.3	—	3
A 191	Other, chronic liver disease and cirrhosis without mention of alcohol	27	2.6	20	7
A 192	Cholelithiasis and other disorders of gallbladder	13	1.3	6	7
A 193	All other diseases of digestive system	91	8.8	49	42
A 194	Acute glomerulonephritis	1	0.1	1	—
A 195	Nephrotic syndrome	1	0.1	1	—
A 196	Chronic glomerulonephritis, nephritis, nephropathy, and renal sclerosis unspecified	4	0.4	3	1
A 197	Renal failure and other disorders resulting from impaired function	92	8.9	53	39
A 198	Infections of kidney	3	0.3	1	2
A 200	Other diseases of urinary system	22	2.1	14	8
A 201	Hyperplasia of prostate	2	0.2	2	—
A 202	Other diseases of male genital organs	2	0.2	2	—
A 204	Other diseases of female genital organs	2	0.2	—	2
A 213	Complication of puerperium	1	0.1	—	1
A 218	Other diseases of skin and subcutaneous tissue	3	0.3	3	—
A 219	Rheumatoid arthritis and other inflammatory polyarthropathies	11	1.1	1	10
A 220	Arthropathies and related disorders	17	1.6	7	10
A 222	Rheumatism, excluding the back	1	0.1	—	1
A 223	Ostheopathies, chondropathies, and acquired musculoskeletal deformities	10	1.0	4	6
A 224	Spina bifida	2	0.2	—	2
A 225	All other congenital anomalies of nervous system	4	0.4	4	—
A 226	Congenital anomalies of heart	13	1.3	6	7
A 227	Other congenital anomalies of circulatory system	6	0.6	2	4
A 228	All other congenital anomalies	22	2.1	9	13
A 229	Birth trauma	4	0.4	2	2
A 230	Intrauterine hypoxia, birth asphyxia, and respiratory distress syndrome	11	1.1	8	3
A 231	Other conditions originating in the perinatal period	49	4.7	29	20
A 232	Senility without mention of psychosis	23	2.2	6	17
A 233	Symptoms, signs and other ill-defined conditions	40	3.9	20	20
AE 235	Involving collision with train	9	0.9	7	2
AE 236	Involving collision with another motor vehicle	87	8.4	54	33
AE 237	Involving collision with pedestrian	17	1.6	12	5
AE 238	Involving collision with other vehicle or object	10	1.0	8	2
AE 239	Not involving collision on highway	63	6.1	48	15
AE 240	Motor vehicle traffic accident of unspecified nature	23	2.2	13	10
AE 241	Motor vehicle nontraffic accident	13	1.3	11	2
AE 243	Water transport accidents	2	0.2	2	—
AE 244	Air and space transport accidents	6	0.6	6	—

Mortality (Continued)

Age group												
Under 15		15-24		25-44		45-64		65-74		75+		
M	F	M	F	M	F	M	F	M	F	M	F	
—	—	—	—	—	—	3	—	2	1	10	9	A 181
—	—	—	—	—	—	—	—	1	—	6	2	A 182
—	—	—	—	1	—	1	—	1	1	—	2	A 183
1	—	—	—	—	—	1	—	—	—	—	—	A 184
1	1	—	—	2	—	3	—	2	1	6	15	A 185
—	—	—	—	—	—	1	—	—	—	2	1	A 186
—	—	—	—	—	—	1	—	1	5	6	8	A 187
—	—	—	—	—	—	1	—	1	1	1	15	A 188
—	—	—	—	1	2	12	4	11	1	2	—	A 189
—	—	—	—	—	1	—	1	—	1	—	—	A 190
—	—	—	—	1	1	6	1	6	2	7	3	A 191
—	—	—	—	—	—	2	4	2	—	2	3	A 192
—	—	1	1	5	2	7	3	8	5	28	31	A 193
—	—	—	—	—	—	—	—	—	—	1	—	A 194
—	—	—	—	—	—	—	—	—	—	1	—	A 195
—	—	—	—	—	—	1	—	—	—	2	1	A 196
1	—	—	—	—	1	7	2	14	5	31	31	A 197
—	—	—	—	—	—	—	—	—	—	1	2	A 198
—	1	—	—	—	—	1	—	4	—	9	7	A 200
—	—	—	—	—	—	—	—	1	—	1	—	A 201
—	—	—	—	—	—	1	—	1	—	—	—	A 202
—	—	—	—	—	—	—	1	—	—	—	1	A 204
—	—	—	1	—	—	—	—	—	—	—	—	A 213
—	—	—	—	—	—	—	—	—	—	3	—	A 218
—	—	—	—	—	—	—	1	—	3	1	6	A 219
—	—	—	—	1	1	2	2	—	5	4	2	A 220
—	—	—	—	—	—	—	—	—	1	—	—	A 222
—	1	—	1	—	—	1	—	—	—	3	4	A 223
—	2	—	—	—	—	—	—	—	—	—	—	A 224
3	—	—	—	—	—	1	—	—	—	—	—	A 225
4	6	—	—	—	—	1	—	1	1	—	—	A 226
1	3	—	—	1	—	—	1	—	—	—	—	A 227
7	9	—	1	—	—	1	2	—	—	1	1	A 228
2	2	—	—	—	—	—	—	—	—	—	—	A 229
8	3	—	—	—	—	—	—	—	—	—	—	A 230
29	20	—	—	—	—	—	—	—	—	—	—	A 231
—	—	—	—	—	—	—	—	—	—	6	17	A 232
14	12	—	—	1	—	1	1	1	—	3	7	A 233
1	—	1	1	3	—	1	1	—	—	1	—	AE 235
2	—	9	2	16	8	8	10	10	11	9	2	AE 236
1	3	3	1	3	—	3	1	—	—	2	—	AE 237
1	1	4	—	2	1	1	—	—	—	—	—	AE 238
1	3	13	5	21	6	8	—	3	1	2	—	AE 239
2	—	2	5	3	—	1	2	1	2	4	1	AE 240
2	2	5	—	2	—	—	—	1	—	1	—	AE 241
—	—	1	—	—	—	—	—	1	—	—	—	AE 243
—	—	—	—	5	—	—	—	1	—	—	—	AE 244

Mortality (Continued)

Table 23. Deaths by Age and Sex According to Intermediate List of Mortality Causes with Rates per 100,000 Population, Saskatchewan, 1989 (Continued)

	Cause of death	All ages			
		Both sexes		Male	Female
		Number	Rate		
AE 246	Accidental poisoning by drugs, medicaments, and biologicals	6	0.6	2	4
AE 247	Accidental poisoning by other solid or liquid substances	4	0.4	2	2
AE 248	Accidental poisoning by gases and vapors	12	1.2	10	2
AE 249	Misadventures during medical care	8	0.8	3	5
AE 250	Fall from one level to another	20	1.9	13	7
AE 251	Fall on same level	11	1.1	5	6
AE 252	Fracture, cause unspecified, and other and unspecified falls	65	6.3	32	33
AE 253	Accidents caused by fires and flames	14	1.4	13	1
AE 255	Accidental drowning and submersion	15	1.4	13	2
AE 256	Suffocation caused by inhalation or ingestion of food or other object	19	1.8	8	11
AE 258	Accidents caused by all other and unspecified firearms	5	0.5	4	1
AE 260	Accident caused by hot substance or object and exposure to radiation	1	0.1	—	1
AE 261	Accident caused by electric current	6	0.6	6	—
AE 262	All other accidents and late effects of accidental injury	34	3.3	26	8
AE 264	Suicide by drugs, medicaments and biologicals in therapeutic use	10	1.0	4	6
AE 265	Suicide by other solid or liquid substances	3	0.3	3	—
AE 266	Suicide by gases and vapors	17	1.6	14	3
AE 267	Suicide by hanging, strangulation and suffocation	38	3.7	34	4
AE 268	Suicide by handgun	2	0.2	1	1
AE 269	Suicide by all other and unspecified firearms	47	4.5	42	5
AE 270	Suicide by all other means and late effects of self-inflicted injury	7	0.7	4	3
AE 272	Assault by all other and unspecified firearms	2	0.2	2	—
AE 273	Assault by cutting and piercing instrument	8	0.8	3	5
AE 274	Assault by other means and late effects of injury	13	1.3	8	5
AE 277	Injury undetermined whether accidentally or purposely inflicted from poisoning by drugs, medicaments and biologicals	6	0.6	1	5
AE 280	Injury by unspecified firearms	1	0.1	1	—
AE 281	Injury undetermined whether accidentally or purposely inflicted from injury by all other means and late effects of injury	8	0.8	8	—

Mortality (Continued)

Age group												
Under 15		15-24		25-44		45-64		65-74		75+		
M	F	M	F	M	F	M	F	M	F	M	F	
—	—	1	—	1	3	—	1	—	—	—	—	AE 246
—	—	—	—	—	1	2	1	—	—	—	—	AE 247
—	—	1	2	5	—	1	—	3	—	—	—	AE 248
—	—	—	1	—	—	1	—	—	—	2	4	AE 249
—	—	1	—	3	—	2	1	3	1	4	5	AE 250
—	1	—	—	—	—	—	—	—	—	5	5	AE 251
2	—	—	—	2	—	6	—	—	—	22	33	AE 252
1	—	2	—	6	1	2	—	—	—	2	—	AE 253
6	1	1	—	3	—	2	—	1	—	—	1	AE 255
—	2	—	—	—	1	2	2	2	2	4	4	AE 256
1	1	—	—	1	—	2	—	—	—	—	—	AE 258
—	1	—	—	—	—	—	—	—	—	—	—	AE 260
—	—	1	—	4	—	1	—	—	—	—	—	AE 261
3	1	4	2	5	2	6	1	5	—	3	2	AE 262
—	—	—	—	2	4	2	1	—	—	—	1	AE 264
—	—	—	—	—	—	3	—	—	—	—	—	AE 265
1	—	2	—	9	2	1	1	—	—	1	—	AE 266
—	—	9	2	17	1	4	1	1	—	3	—	AE 267
—	—	—	—	—	1	—	—	1	—	—	—	AE 268
—	—	9	3	18	2	6	—	5	—	4	—	AE 269
—	—	—	—	2	2	1	1	1	—	—	—	AE 270
—	—	—	—	2	—	—	—	—	—	—	—	AE 272
—	3	2	1	1	—	—	1	—	—	—	—	AE 273
1	2	3	1	2	1	1	1	1	—	—	—	AE 274
—	—	—	—	1	3	—	2	—	—	—	—	AE 277
—	—	1	—	—	—	—	—	—	—	—	—	AE 280
—	—	3	—	—	—	2	—	1	—	2	—	AE 281

Mortality (Continued)

Table 23. Deaths by Age and Sex According to Intermediate List of Mortality Causes with Rates per 100,000 Population, Saskatchewan, 1989 (Concluded)

There were no deaths in 1989 from the following:

A 1	Cholera, typhoid, paratyphoid fevers
A 2	Shigellosis
A 3	Other samonella infections, food poisoning
A 4	Amoebiasis
A 5	Intestinal infections, specified
A 6	Ill-defined intestinal infections
A 9	Brucellosis
A 10	Diptheria
A 11	Whooping cough
A 12	Streptococcal throat, scarlatina, erysipelas
A 14	Tetanus
A 17	Acute poliomyelitis
A 18	Smallpox
A 19	Measles
A 20	Rubella
A 21	Anthropod-borne encephalitis
A 24	Typhus and other rickettsioses
A 25	Malaria
A 26	Other arthropod-borne diseases
A 27	Cardiovascular syphilis
A 28	Neurosyphilis
A 29	All other syphilis
A 30	Gonococcal infections
A 31	Other venereal diseases
A 33	Helminthiases
A 34	Late effects of tuberculosis
A 35	Late effects of acute poliomyelitis
A 36	All other infectious and parasitic diseases and late effects of other infectious and parasitic diseases
A 70	Malignant neoplasm of testis
A 76	Malignant neoplasm of other and unspecified parts of nervous system
A 87	Benign neoplasm of female genital organs
A 90	Malignant neoplasm of breast and genitourinary system
A 91	Benign neoplasm of all other and unspecified sites
A 96	Disorders of the pituitary gland and its hypothalamic control
A 97	Diseases of thymus gland
A 99	Cystic fibrosis
A 115	Drug dependence
A 125	Disorders of eye and adnexa
A 126	Diseases of ear and mastoid
A 179	Diseases of oral cavity, salivary glands, and jaws
A 199	Urinary calculus
A 203	Disorders of breast
A 205	Ectopic pregnancy
A 206	Spontaneous abortion
A 207	Legally induced abortion
A 208	Illegally induced abortion
A 209	Pregnancy with abortive outcome
A 210	Hemorrhage of pregnancy and childbirth
A 211	Toxemia of pregnancy
A 212	Obstructed labor
A 214	Direct obstetric causes
A 215	Indirect obstetric causes
A 216	Delivery in completely normal case
A 217	Infections of skin and subcutaneous tissue
A 221	Dorsopathies
AE 234	Railway accidents
AE 242	Other road vehicle accidents
AE 245	Vehicle accidents not elsewhere classifiable
AE 254	Lightning
AE 257	Accidents caused by handgun
AE 259	Accident caused by explosive material
AE 263	Drugs, medicaments, and biological substances causing adverse effects in therapeutic use
AE 271	Assault by handgun
AE 275	Legal execution
AE 276	Other legal intervention
AE 278	Injury undetermined whether accidentally or purposely inflicted from poisoning by other solid or liquid substances
AE 279	From injury by handgun
AE 282	Injury from operations of war

Mortality (Continued)

Table 24. Accidental and Violent Deaths by External Cause and Internal Cause, Saskatchewan, 1989

External cause of death	Internal cause										
	BN47	BN48	BN49	BN50	BN51	BN52	BN53	BN54	BN55	BN56	Total
All causes of death	152	2	180	43	21	7	78	8	120	1	612
BE47 Transport accidents	71	1	120	7	1	1	—	—	29	—	230
BE48 Accidental poisoning	—	—	—	—	—	—	22	—	—	—	22
BE49 Misadventures during medical care	—	—	—	—	—	—	—	8	—	—	8
BE50 Accidental falls	74	1	18	—	—	—	1	—	2	—	96
BE51 Accidents caused by fires and flames	—	—	—	—	—	2	12	—	—	—	14
BE52 Other accidents, late effects	1	—	14	1	19	2	1	—	41	1	80
BE54 Suicide and self-inflicted injury	3	—	17	32	—	—	31	—	41	—	124
BE55 Homicide and intentional injury	2	—	11	2	1	—	2	—	5	—	23
BE56 Other violence	1	—	—	1	—	2	9	—	2	—	15

Codes for internal cause of deaths:

BN47 Fractures
BN48 Dislocations, sprains, strains
BN49 Intracranial, internal injury, nerves
BN50 Open wounds, injury to blood vessels
BN51 Effects/body entering through orifice
BN52 Burns
BN53 Poisonings and toxic agents
BN54 Complications/medical and surgical care
BN55 Other injuries
BN56 Effects of injury, poisons, toxicity

Mortality (Continued)

Table 25. Suicide by Province, 1984-1989

	1984		1985		1986		1987		1988		1989	
	No.	Rate*	No.	Rate*	No.	Rate*	No.	Rate*	No.	Rate*	No.	Rate*
Canada	3,440	13.7	3,259	12.9	3,670	14.5	3,594	14.0	3,510	13.5	3,492	13.3
Newfoundand	39	6.7	23	4.0	23	4.0	28	4.9	44	7.7	29	5.1
Prince Edward Island	15	12.0	5	3.9	14	11.1	11	8.6	13	10.1	11	8.5
Nova Scotia	86	9.9	106	12.0	94	10.8	111	12.6	106	12.0	96	10.8
New Brunswick	90	12.6	86	12.0	96	13.5	75	10.5	108	15.1	84	11.7
Quebec	1,027	15.7	1,124	17.1	1,148	17.6	1,179	17.9	1,089	16.4	1,042	15.6
Ontario	1,101	12.3	1,038	11.4	1,130	12.4	1,069	11.5	1,045	11.1	1,142	11.9
Manitoba	134	12.7	127	11.9	153	14.3	170	15.8	154	14.2	147	13.5
Saskatchewan	136	13.5	133	13.0	138	13.7	132	13.0	145	14.3	124	12.3
Alberta	405	17.2	296	12.6	424	17.9	384	16.1	400	16.7	362	14.9
British Columbia	385	13.4	300	10.4	425	14.7	413	14.1	378	12.7	419	13.7
Yukon	5	22.9	8	35.1	10	42.5	7	28.7	7	27.7	5	19.6
Northwest Territories	17	34.4	13	25.5	15	28.7	15	29.0	21	40.5	31	58.6

* Rate per 100,000 population (Statistics Canada population estimates).

Mortality (Concluded)

Table 26. Suicide by Age Group and Sex, Saskatchewan, 1961-1989

		Under 15		15-24		25-44		45-64		65-74		75+	
		M	F	M	F	M	F	M	F	M	F	M	F
1961	Number	—	—	7	1	17	3	35	8	15	2	6	—
	Rate*	—	—	10.5	1.6	14.5	2.7	40.1	10.2	51.1	8.3	33.3	—
1966	Number	2	—	4	6	21	—	24	7	9	—	3	—
	Rate*	1.2	—	5.2	8.1	19.2	—	25.9	8.1	33.8	—	15.0	—
1971	Number	1	—	12	1	14	3	32	8	3	—	4	—
	Rate*	0.7	—	14.3	1.2	13.8	3.1	33.9	8.7	10.9	—	19.9	—
1976	Number	—	—	25	13	34	9	22	9	3	6	7	1
	Rate*	—	—	27.4	14.9	32.3	8.9	23.7	9.7	9.9	19.6	37.1	4.5
1981	Number	2	2	39	15	42	13	25	6	11	5	8	3
	Rate*	1.8	1.9	41.9	16.5	33.6	10.8	27.3	6.5	32.6	13.8	39.4	11.7
1986	Number	1	—	29	3	33	17	31	6	5	4	8	1
	Rate*	0.8	—	34.1	3.6	22.5	12.0	34.7	6.7	14.2	9.9	35.4	3.3
1989	Number	1	—	20	5	48	12	17	4	8	—	8	1
	Rate*	0.8	—	26.1	6.8	31.6	8.1	19.3	4.5	22.3	—	32.8	2.9

* Rate per 100,000 population (Statistics Canada population estimates).

Infant Mortality

Infant Mortality Rate

A favourable infant mortality rate is one of the indications of good general health conditions in an area.

One of the most important of the factors influencing the infant mortality rate is the proportion of births that take place in hospital or under proper medical care. Successful public health programs, availability of hospital facilities, high quality of medical care and high standards of living are some of the conditions which have assisted in creating a downward trend in infant mortality.

The risk of death during the first year of life is higher than at any other age except at very old ages. Not until age 65 for males and age 70 for females is there a greater probability of death than that of infancy — see Saskatchewan Life Table (Table 38 in this report).

Infant Deaths by Age and Sex

Of the total infant deaths, 35.1 per cent occurred during the first day of life and 41.8 per cent before the third day. 60.4 per cent occurred by the end of the first month.

In 1989 the male infant mortality rate was 9.2 per 1,000 male live births, and the female rate was 6.8 per 1,000 female live births.

Causes of Infant Deaths

In 1989 congenital anomalies caused 29 infant deaths (21.6 per cent of the total). Hypoxia, birth asphyxia, and respiratory conditions accounted for 23 infant deaths (17.2 per cent), and immaturity for 13 infant deaths (9.7 per cent). Influenza and pneumonia caused 3 infant deaths (2.2 per cent).

Neonatal Mortality (deaths under 4 weeks of age)

Of the 81 neonatal deaths in Saskatchewan in 1989, 47 occurred during the first day and 64 in the first week of life. Congenital anomalies were the leading causes of neonatal death, followed by hypoxia, asphyxia and respiratory conditions and immaturity.

Saskatchewan's 1989 neonatal mortality rate of 4.9 per 1,000 live births was slightly higher than the rate for all of Canada which was 4.7.

Perinatal Mortality

Deaths occurring before, and soon after, the natal or delivery period frequently have the same underlying causes. Perinatal deaths consist of stillbirths plus deaths under one week of age and the rate is expressed as a proportion of total births (live and stillborn). Under the definition of stillbirth adopted in 1961, in which the minimum gestational period was lowered from 28 to 20 weeks, there were 160 perinatal deaths with a rate of 9.6 per 1,000 total births in 1989, compared with a rate of 9.6 in 1988. Using the old definition of stillbirth (28+ weeks gestation) perinatal deaths would number 129 in 1989, giving a rate of 7.7 per 1,000 total births.

Infant Mortality (Continued)

Table 27. Distribution of Infant Deaths by Age, Saskatchewan, 1989

Age	Number	Per cent	Rate*	Cumulative		
				Number	Per cent	Rate*
Total	134	100.0	8.0	134	100.0	8.0
1st day	47	35.1	2.8	47	35.1	2.8
2nd day	3	2.2	0.2	50	37.3	3.0
3rd day	6	4.5	0.4	56	41.8	3.4
4th day	3	2.2	0.2	59	44.0	3.5
5th day	3	2.2	0.2	62	46.3	3.7
6th day	2	1.5	0.1	64	47.8	3.8
7th day	—	—	—	64	47.8	3.8
1st week	64	47.8	3.8	64	47.8	3.8
2nd week	8	6.0	0.5	72	53.7	4.3
3rd week	3	2.2	0.2	75	56.0	4.5
4th week	6	4.5	0.4	81	60.4	4.9
1st month	81	60.4	4.9	81	60.4	4.9
2nd month	8	6.0	0.5	89	66.4	5.3
3rd month	11	8.2	0.7	100	74.6	6.0
4th month	8	6.0	0.5	108	80.6	6.5
5th month	5	3.7	0.3	113	84.3	6.8
6th month	9	6.7	0.5	122	91.0	7.3
7th month	2	1.5	0.1	124	92.5	7.4
8th month	1	0.7	0.1	125	93.3	7.5
9th month	5	3.7	0.3	130	97.0	7.8
10th month	—	—	—	130	97.0	7.8
11th month	3	2.2	0.2	133	99.3	8.0
12th month	1	0.7	0.1	134	100.0	8.0

* Rate per 1,000 live births.

Table 28. Infant Deaths by Sex and Age at Death, with Rates per 1,000 Live Births, Saskatchewan, 1989

Age of child	Number of infant deaths		Rate*		Per cent	
	Male	Female	Male	Female	Male	Female
Total	79	55	9.2	6.8	100.0	100.0
Under 1 day	29	13	3.4	1.6	36.7	23.6
1 day – 1 week	15	7	1.7	0.9	19.0	12.7
1 week – 1 month	4	13	0.5	1.6	5.1	23.6
1 month – 6 months	23	18	2.7	2.2	29.1	32.7
6 months – 1 year	8	4	0.9	0.5	10.1	7.3

* Rate per 1,000 live births.

Infant Mortality (Continued)

Table 29. Infant Deaths by Selected Causes with Rates per 1,000 Live Births by Age at Death, Saskatchewan, 1989

Cause of death	Total under 1 year		Total under 28 days		Under 1 day		1 day		2 days		3 days		4 days	
	Number	Rate	Number	Rate	M	F	M	F	M	F	M	F	M	F
All infant deaths	134	8.0	81	4.9	29	13	2	3	2	1	6	—	2	1
Pneumonia (480-486)	3	0.2	—	—	—	—	—	—	—	—	—	—	—	—
Congenital anomalies														
Brain, spine, nervous system (740-742)	2	0.1	2	0.1	—	—	—	—	—	—	—	—	—	—
Heart (746)	7	0.4	4	0.2	—	—	—	—	—	—	1	—	—	—
Other circulatory system (747)	4	0.2	2	0.1	1	—	—	—	—	—	—	—	—	—
Respiratory system (748)	4	0.2	4	0.2	2	1	—	1	—	—	—	—	—	—
Digestive system (749-751)	1	0.1	—	—	—	—	—	—	—	—	—	—	—	—
Urinary system (753)	1	0.1	1	0.1	—	—	—	—	—	—	—	—	—	—
Other and unspecified (759)	2	0.1	2	0.1	1	—	1	—	—	—	—	—	—	—
Certain causes of perinatal mortality														
Condition of placenta, cord, membrane (762)	11	0.7	11	0.7	3	5	1	—	1	—	1	—	—	—
Immaturity (765)	13	0.8	13	0.8	10	1	—	1	—	—	—	—	—	—
Other complications (779)	1	0.1	1	0.1	1	—	—	—	—	—	—	—	—	—
Symptoms, ill-defined conditions (780-799)	25	1.5	1	0.1	—	—	—	—	—	—	—	—	—	—
Accidents, poisoning and violence														
Accidental falls (E880-E888)	1	0.1	—	—	—	—	—	—	—	—	—	—	—	—
Mechanical suffocation (E913)	1	0.1	—	—	—	—	—	—	—	—	—	—	—	—
All other causes	58	3.5	40	2.4	11	6	—	2	1	1	4	—	2	1

Infant Mortality (Continued)

5 days		6 days		7-13 days		14-20 days		21-27 days		28 days under 2 months		2 months		3 months		4 months		5 months		6-8 months		9-11 months	
M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
2	1	1	1	3	5	1	2	—	6	4	4	7	4	3	5	3	2	6	3	6	2	2	2
—	—	—	—	—	—	—	—	—	—	1	—	—	—	—	1	—	—	1	—	—	—	—	—
—	—	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	1	—	—	—	—	—	1	—	1	—	—	2	—	—	—	—	—	—	—	—	—	—	1
—	—	—	1	—	—	—	—	—	—	—	1	—	—	—	1	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	—	—
1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	1	—	—	—	—	—	2	1	4	3	3	3	1	2	2	1	—	—	1	1
—	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—
1	—	—	—	2	3	1	1	—	4	1	2	—	1	—	—	2	—	2	2	6	1	1	—

Infant Mortality (Continued)

Table 30. Infant Deaths from Specific Causes by Sex with Rates per 1,000 Live Births, Saskatchewan, 1989

Cause of death	Total	Sex	
		Male	Female
	Number		
All infant deaths	134	79	55
Infectious diseases (001-003, 101-139)	1	1	—
Influenza, pneumonia (480-487)	3	2	1
Congenital anomalies (740-759)	29	12	17
Certain causes of perinatal mortality			
Birth trauma, injury (763,767)	3	2	1
Hypoxia, asphyxia, respiratory (768-770)	23	14	9
Immaturity (765)	13	10	3
Other causes (remainder 760-779)	21	12	9
Other and ill-defined causes	41	26	15
	Rate per 1,000 live births		
All infant deaths	8.0	9.2	6.8
Infectious diseases (001-003, 101-139)	0.1	0.1	—
Influenza, pneumonia (480-487)	0.2	0.2	0.1
Congenital anomalies (740-759)	1.7	1.7	2.1
Certain causes of perinatal mortality			
Birth trauma, injury (763,767)	0.2	0.2	0.1
Hypoxia, asphyxia, respiratory (768-770)	1.4	1.6	1.1
Immaturity (765)	0.8	1.2	0.4
Other causes (remainder 760-779)	1.3	1.4	1.1
Other and ill-defined causes	2.5	3.0	1.9

Infant Mortality (Concluded)

Table 31. Infant Deaths from Specific Causes by Age at Death with Rates per 1,000 Live Births, Saskatchewan, 1989

Cause of death	Total	0-6 days	7-27 days	28 days to 12 months
	Number			
All infant deaths	134	64	17	53
Infectious diseases (001-003, 101-139)	1	—	—	1
Influenza, pneumonia (480-487)	3	—	—	3
Congenital anomalies (740-759)	29	17	3	9
Certain causes of perinatal mortality				
Birth trauma, injury (763,767)	3	2	—	1
Hypoxia, asphyxia, respiratory (768-770)	23	13	5	5
Immaturity (765)	13	11	2	—
Other causes (remainder 760-779)	21	19	2	—
Other and ill-defined causes	41	2	5	34
	Rate per 1,000 live births			
All infant deaths	8.0	3.8	1.0	3.2
Infectious diseases (001-003, 101-139)	0.1	—	—	0.1
Influenza, pneumonia (480-487)	0.2	—	—	0.2
Congenital anomalies (740-759)	1.7	1.0	0.2	0.5
Certain causes of perinatal mortality				
Birth trauma, injury (763,767)	0.2	0.1	—	0.1
Hypoxia, asphyxia, respiratory (768-770)	1.4	0.8	0.3	0.3
Immaturity (765)	0.8	0.7	0.1	—
Other causes (remainder 760-779)	1.3	1.1	0.1	—
Other and ill-defined causes	2.5	0.1	0.3	2.0

Marriages and Divorces

Rate of Marriages

There were 6,637 marriages in Saskatchewan in 1989 giving a marriage rate per 1,000 population of 6.6. For Canada as a whole, the rate increased slightly, from 7.2 in 1988 to 7.3 in 1989.

July was the most favoured month for marriages in 1989 followed by August and June. The smallest number of marriages occurred in January.

The following table shows the distribution of marriage registrations by month.

Month	Number
January	155
February	249
March	274
April	418
May	604
June	761
July	1,207
August	946
September	724
October	575
November	364
December	360

Previous Marital Status and Age at Marriage

In 1989 in Saskatchewan, 71.7 per cent of all marriages were between persons who had not been previously married.

Of brides, 8.4 per cent were age 19 or less, whereas 1.9 per cent of bridegrooms fell into this category. Nearly 33.0 per cent of all bridegrooms and 50.5 per cent of all brides were 24 years or less. The average age of grooms was 29.6 and brides 27.0.

The following table gives a comparison of the average age of bridegrooms and brides for the years 1976-1989.

Average Age at Time of Marriage in Years		
	Bridegroom	Bride
1976	25.8	23.2
1977	26.7	23.9
1978	26.3	23.6
1979	26.4	23.8
1980	26.7	24.0
1981	27.1	24.4
1982	27.1	24.4
1983	27.6	24.9
1984	28.0	25.3
1985	28.1	25.4
1986	28.5	25.9
1987	29.3	26.6
1988	29.5	26.9
1989	29.6	27.0

Birth Place and Religious Denomination

The number of Saskatchewan born brides was 5,316 or 80.1 per cent of total brides while Saskatchewan born grooms numbered 5,019 or 75.6 per cent; 94.0 per cent of all grooms and 95.3 per cent of all brides were born in Canada.

Both parties were of the same religious denomination in 45.4 per cent of all marriages recorded in Saskatchewan in 1989.

Divorces and Annulments

There were 2,417 divorces and annulments in Saskatchewan in 1989, a decrease of 25 from the previous year. The rate of divorces and annulments per 100,000 population in 1989 was 240 compared to 242 for 1988.

The ratio of divorces and annulments to marriages was 1:3 in 1988 and 1:3 in 1989.

Marriages and Divorces (Continued)

Table 32. Divorces and Annulments, Ratio to Marriages, and Rate per 100,000 Population, Saskatchewan, 1983-1989

Item	1983	1984	1985	1986	1987	1988	1989
Number of divorces and annulments	2,000	1,988	1,927	2,449†	2,909	2,442	2,417
Number of marriages	7,504	7,213	7,132	6,820	6,853	6,767	6,637
Ratio of divorces and annulments to marriages	1:4	1:4	1:4	1:3	1:2	1:3	1:3
Rate of divorces and annulments per 100,000 population	202	198	189	243†	287	242	240

† Revised figure.

Source: Divorce figures from Statistics Canada publication "Vital Statistics, Volume II Marriages and Divorces", 84-205.

Table 33. Marriages by Previous Marital Status of Bridegroom and Bride, Saskatchewan, 1989

Status of bridegroom	Total	Status of bride		
		Single	Widow	Divorced
Total	6,637	5,332	218	1,087
Single	5,299	4,761	46	492
Widower	199	30	106	63
Divorced	1,139	541	66	532

Table 34. Bridegrooms and Brides by Age and Previous Marital Status, Saskatchewan, 1989

Age group	Bridegrooms				Brides			
	Total	Single	Widower	Divorced	Total	Single	Widow	Divorced
Total	6,637	5,299	199	1,139	6,637	5,332	218	1,087
Under 20	123	123	—	—	562	560	1	1
20-24	2,065	2,056	—	9	2,787	2,734	4	49
25-29	2,246	2,088	5	153	1,758	1,491	9	258
30-34	962	680	6	276	687	382	11	294
35-39	473	207	9	257	319	100	13	206
40-44	252	64	12	176	166	33	14	119
45-49	165	35	14	116	118	16	22	80
50-54	93	18	11	64	68	5	21	42
55-59	71	9	23	39	55	5	28	22
60-64	74	9	37	28	44	4	28	12
65-69	60	6	40	14	38	2	34	2
70-74	24	—	18	6	22	—	21	1
75+	29	4	24	1	13	—	12	1
Average age	29.6	26.4	59.8	38.9	27.0	24.2	55.0	35.3
Median age	27.0	25.0	63.0	37.0	24.0	23.0	58.0	33.0

Average and median ages were calculated using single year age groups.

Marriages and Divorces (Concluded)

Table 35. Marriages by Religious Denomination of Bridegroom and Bride, Saskatchewan, 1989

Denomination	Number			Per cent		
	Both parties*	Bridegroom	Bride	Both parties*	Bridegroom	Bride
Total	3,010	6,637	6,637	45.4	100.0	100.0
Baptists	38	114	108	0.6	1.7	1.6
Lutherans	133	484	537	2.0	7.3	8.1
Mennonites	101	195	179	1.5	2.9	2.7
Presbyterians	15	76	69	0.2	1.1	1.0
Roman Catholics	1,033	2,056	2,108	15.6	31.0	31.8
United Church	668	1,450	1,545	10.1	21.8	23.3
All other religions	687	1,317	1,259	10.4	19.8	19.0
No religion	198	446	355	3.0	6.7	5.3
Unspecified or unknown	137	499	477	2.1	7.5	7.2

* These figures and percentages represent marriages in which both the bridegroom and bride were of the same religious denomination. The difference between this figure and the total number of marriages represents the proportion in which bridegroom and bride were of different religious denominations. Includes Eastern Orthodox Churches and Doukhobors.

Table 36. Marriages by Birthplace of Bridegroom and Bride, Saskatchewan, 1989

Birthplace of bridegroom	Birthplace of bride												
	Total	Sask.	Alta.	B.C.	Man.	Ont.	Other prov.	U.S.	Asia	Europe	Africa	Other	Not stated
Total	6,637	5,316	266	137	297	197	113	58	90	113	18	32	—
Saskatchewan	5,019	4,199	177	91	200	133	68	37	24	72	5	13	—
Alberta	311	235	32	9	10	11	5	2	2	3	—	2	—
British Columbia	157	122	8	8	5	8	2	1	—	—	1	2	—
Manitoba	322	226	20	6	48	6	4	4	3	3	2	—	—
Ontario	272	199	13	13	10	18	8	1	3	6	1	—	—
Other provinces	155	105	6	4	3	8	21	2	1	5	—	—	—
United States	94	68	1	1	10	3	1	9	—	1	—	—	—
Asia	73	15	—	—	—	—	—	—	53	3	1	1	—
Europe	175	122	5	2	9	8	4	2	3	18	1	1	—
Africa	18	7	1	1	—	—	—	—	1	1	7	—	—
Other	41	18	3	2	2	2	—	—	—	1	—	13	—
Not stated	—	—	—	—	—	—	—	—	—	—	—	—	—

Life Expectancy

A life expectancy table is, in effect, the history of mortality of 100,000 male babies and of 100,000 female babies born at the same time. Life expectancy figures provide a graphic picture of the extent to which the saving of lives has gradually prolonged the average expectation of life, and are fairly good mirrors reflecting the general health and survival conditions at the time of their compiling.

According to the Saskatchewan life table compiled on the basis of the 1986 census, the life expectancy at birth reached an all time peak for females, 80.47 years, and for males, 73.66 years. The gain in life expectancy is greater in females. A sharp rise in the probability of death begins at age 55 for males and at 65 for females, the decrease in expectancy being faster for males than females.

Table 37. Life Expectancy, Saskatchewan, 1941, 1961, 1986

Age	Life expectancy			Gain or loss in life expectancy	
	1941	1961	1986	1961 over 1941	1986 over 1961
	Males				
At birth	65.43	70.27	73.66	4.84	3.39
20	51.28	53.49	55.28	2.21	1.79
40	33.32	34.99	36.70	1.67	1.71
60	16.82	18.10	19.62	1.28	1.52
80	5.76	6.31	7.59	0.55	1.28
	Females				
At birth	68.19	75.93	80.47	7.74	4.54
20	53.08	58.35	61.64	5.27	3.29
40	34.96	39.09	42.28	4.13	3.19
60	18.26	21.09	24.21	2.83	3.12
80	6.38	7.29	9.40	0.91	2.11

Note: Source of figures for 1941: Life Tables for Canada and Regions, 1941 and 1931, D.B.S. Ottawa 1947. These figures have been calculated for the prairie provinces. The figures for 1961 have been calculated for Saskatchewan by the Department of Health. The figures for 1986 are taken from the Statistics Canada publication, Life Tables, Canada and Provinces, 1985-1987.

Life Expectancy (Continued)

Table 38. Life Table for Saskatchewan in Shortened Form, 1986 — Males

Age	Number of survivors l_x	Number of deaths d_x	Probability of death before reaching next birthday q_x	Life expectancy e_x^o
At birth	100,000	1,061	.01061	73.66
1 year	98,939	78	.00079	73.45
2 years	98,861	71	.00072	72.51
3 years	98,790	68	.00069	71.56
4 years	98,722	57	.00058	70.61
5 years	98,665	43	.00043	69.65
10 years	98,530	28	.00028	64.74
15 years	98,286	100	.00101	59.90
20 years	97,625	167	.00171	55.28
25 years	96,779	150	.00155	50.75
30 years	96,098	128	.00134	46.09
35 years	95,440	139	.00146	41.39
40 years	94,668	189	.00199	36.70
45 years	93.525	303	.00324	32.12
50 years	91,657	496	.00541	27.72
55 years	88,697	739	.00833	23.56
60 years	84,386	1,072	.01270	19.62
65 years	78,073	1,590	.02037	16.00
70 years	68,912	2,179	.03163	12.77
75 years	56,750	2,822	.04972	9.95
80 years	41,829	3,090	.07388	7.59
85 years	26,498	2,942	.11100	5.55

Life Expectancy (Continued)

Table 38. Life Table for Saskatchewan in Shortened Form, 1986 — Females (Concluded)

Age	Number of survivors l_x	Number of deaths d_x	Probability of death before reaching next birthday q_x	Life expectancy e_x^o
At birth	100,000	869	.00869	80.47
1 year	99,131	55	.00055	80.17
2 years	94,076	35	.00035	79.21
3 years	99,041	28	.00028	78.24
4 years	99,013	23	.00024	77.26
5 years	98,990	23	.00023	76.28
10 years	98,875	23	.00023	71.37
15 years	98,731	46	.00046	66.47
20 years	98,464	53	.00054	61.64
25 years	98,212	52	.00053	56.79
30 years	97,938	58	.00059	51.94
35 years	97,632	67	.00069	47.10
40 years	97,237	105	.00109	42.28
45 years	96,576	177	.00183	37.55
50 years	95,493	287	.00300	32.95
55 years	93,780	430	.00459	28.50
60 years	91,256	633	.00694	24.21
65 years	87,605	870	.00994	20.11
70 years	82,549	1,273	.01542	16.18
75 years	74,908	1,956	.02611	12.56
80 years	63,175	2,989	.04731	9.40
85 years	46,315	3,806	.08218	6.87